

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2019
Docket Number 2018-XX-E
Exhibit Summary for Rider EE Exhibits and Factors

Residential Billing Factor

1	Costs to be Recovered for Year 2014 True Up	Year 2014 Exhibit 1, Line 16	(26,057)
2	Costs to be Recovered for Year 2015 True up	Year 2015 Exhibit 1, Line 16	163,233
3	Costs to be Recovered for Year 2016 True up	Year 2016 Exhibit 1, Line 16	(34,330)
4	Costs to Be Recovered for Year 2017 True up	Year 2017, Exhibit 1, Line 16	10,943,549
5	Total Cost to be Recovered Vintages Year 2014, Year 2015, Year 2016 and Year 2017 True-ups	Line 1 through line 4	\$ 11,046,395
6	Projected SC Residential Sales (kWh) for rate period	R10 Exhibit 3, Page 1 Line 3	6,505,643,783
7	Revenue Requirement True-up Component for Residential Rider EE (cents per kWh)	Line 5 / Line 6 * 100	0.1698
8	Costs to be Recovered for Vintage Year 2017 Prospective Amounts	Year 2017 Exhibit 1 Line 16	895,081
9	Costs to be Recovered for Vintage Year 2018 Prospective Amounts	Year 2018 Exhibit 1 Line 1	2,340,939
10	Costs to be Recovered for Vintage Year 2019 Prospective Amounts	Year 2019, Exhibit 1, pg 1 Line 12	28,944,904
11	Less: Costs to be Recovered through Solar Access Fee	R10 Exhibit 3 page 2	257,455
12	Total Prospective Components of Residential Revenue Requirement	Line 7 through Line 13	\$ 31,923,469
13	Projected SC Residential Sales (kWh) for rate period	R10 Exhibit 3, Page 1 Line 3	6,505,643,783
14	Revenue Requirement Year Prospective Component for Residential Rider EE (cents per kWh)	Line 14 / Line 15 * 100	0.4907
15	Total Revenue Requirement for Residential Rider EE	Line 5 + Line 12	\$ 42,969,864
16	Total Revenue Requirement for Residential Rider EE (cents per kWh)	Line 7 + Line 14	0.6605

Non-Residential Billing Factors for Rider 10 True-Up Components

16	Total Vintage Year 2014 True-Up EE Revenue Requirement - Vintage Year 2014 EE Participant	Year 2014 Exhibit 1 Line 27	\$ 71,247
17	Projected Vintage Year 2014 EE Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 1 Line 8	4,627,677,286
18	EE Revenue Requirement Vintage Year 2014 True-up Non-Residential Rider EE (cents per kWh)	Line 16/Line 17 * 100	0.0015
19	Total Vintage Year 2014 DSM True Up Revenue Requirement - Vintage Year 2014 DSM Participant	Year 2014 Exhibit 1 Line 40	\$ 55,263
20	Projected Vintage Year 2014 DSM Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 1 Line 9	5,562,575,682
21	DSM Revenue Requirement Vintage Year 2014 True-up Non-Residential Rider EE (cents per kWh)	Line 19/Line 20 * 100	0.0010
22	Total Vintage Year 2015 True-Up EE Revenue Requirement - Vintage Year 2015 EE Participant	Year 2015 Exhibit 1 Line 27	\$ 2,024,764
23	Projected Vintage Year 2015 EE Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 1 Line 10	4,757,192,872
24	EE Revenue Requirement Vintage Year 2015 True-up Non-Residential Rider EE (cents per kWh)	Line 22/Line 23 * 100	0.0426
25	Total Vintage Year 2015 DSM True Up Revenue Requirement - Vintage Year 2015 DSM Participant	Year 2015 Exhibit 1 Line 40	\$ 161,532
26	Projected Vintage Year 2015 DSM Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 1 Line 11	5,522,803,666
27	DSM Revenue Requirement Vintage Year 2015 True-up Non-Residential Rider EE (cents per kWh)	Line 25/Line 26 * 100	0.0029
28	Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2016 EE Participant	Year 2016 Exhibit 1 Line 27	\$ (124,719)
29	Projected Vintage Year 2016 EE Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 1 Line 12	4,487,117,809
30	EE Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Line 28/Line 29 * 100	(0.0028)
31	Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2016 DSM Participant	Year 2016 Exhibit 1 Line 40	\$ 33,773
32	Projected Vintage Year 2016 DSM Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 1 Line 13	5,440,778,436
33	DSM Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Line 31/Line 32 * 100	0.0006
34	Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27	\$ 23,140,909
35	Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 1 Line 14	4,360,626,235
36	EE Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 34/Line 35 * 100	0.5307
37	Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40	\$ 697,903
38	Projected Vintage Year 2017 DSM Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 1 Line 15	5,440,778,436
39	DSM Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 37/Line 38 * 100	0.0128

Non-Residential Billing Factors for Rider 10 Prospective Components

40	Total Vintage Year 2017 Prospective EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1, Line 27	\$ 1,295,967
41	Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 2 Line 14	4,360,626,235
42	EE Revenue Requirement Vintage Year 2017 Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 40/Line 41 * 100	0.0297
43	Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1, Pg. 1, Line 6	\$ 5,435,606
44	Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 2 Line 16	4,288,473,998
45	EE Revenue Requirement Vintage Year 2018 Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 43/Line 44 * 100	0.1267
46	Total Vintage Year 2018 Prospective DSM Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1, Pg. 1, Line 9	313,603
47	Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 2 Line 17	5,376,159,681
48	DSM Revenue Requirement Vintage Year 2018 Non-Residential Rider EE (cents per kWh)	Line 46/Line 47 * 100	0.0058
47	Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Pg. 2, Line 7	\$ 22,270,253
48	Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 2 Line 18	4,288,473,998
49	EE Revenue Requirement Vintage Year 2019 Program Costs and Lost Revenues Non-Residential Rider EE (cents per kWh)	Line 47/Line 48 * 100	0.5193

Exhibit A, page 2

50 Total Vintage Year 2019 Prospective DSM Revenue Requirement - Vintage Year 2019 DSM Participant	Year 2019 Exhibit 1, Pg. 2, Line 16	\$ 7,209,874
51 Projected Vintage Year 2019 DSM Participants SC Non-Residential Sales (kwh) for rate period	R10 Exhibit 3, Page 2 Line 19	5,376,159,681
52 <i>DSM Revenue Requirement Vintage Year 2019 Program Costs Non-Residential Rider EE (cents per kWh)</i>	Line 50/Line 51 * 100	0.1341
 <i><u>Total costs to be recovered in Rider 9 from Non-Residential Customers</u></i>		
53 Total Vintage Year 2014 True-Up EE Revenue Requirement - Vintage Year 2014 EE Participant	Year 2014 Exhibit 1 Line 27	71,247
54 Total Vintage Year 2014 DSM True Up Revenue Requirement - Vintage Year 2014 DSM Participant	Year 2014 Exhibit 1 Line 40	55,263
55 Total Vintage Year 2015 True-Up EE Revenue Requirement - Vintage Year 2015 EE Participant	Year 2015 Exhibit 1 Line 27	2,024,764
56 Total Vintage Year 2015 DSM True Up Revenue Requirement - Vintage Year 2015 DSM Participant	Year 2015 Exhibit 1 Line 40	161,532
57 Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2016 EE Participant	Year 2016 Exhibit 1 Line 27	(124,719)
58 Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2016 DSM Participant	Year 2016 Exhibit 1 Line 40	33,773
59 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1 Line 27	23,140,909
60 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1 Line 40	697,903
61 Total Vintage Year 2017 Prospective EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1, Line 27	1,295,967
62 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1, Pg. 1, Line 6	5,435,606
63 Total Vintage Year 2018 Prospective DSM Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1, Pg. 1, Line 9	313,603
64 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Pg. 2, Line 16	22,270,253
65 Total Vintage Year 2019 Prospective DSM Revenue Requirement - Vintage Year 2019 DSM Participant	Year 2019 Exhibit 1, Pg. 2, Line 16	7,209,874
66 Total Non-Residential Revenue Requirements		62,585,978

Duke Energy Carolinas, LLC

Electricity No. 4

South Carolina Tenth Revised Leaf No. 62

Superseding South Carolina Ninth Revised Leaf No. 62

RIDER EE (SC)
ENERGY EFFICIENCY RIDER

APPLICABILITY (South Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the Public Service Commission of South Carolina (PSCSC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate. As of January 1, 2019, cost recovery under Rider EE consists of the four year term program, years 2014-2017, as well as rates under the continuation of that program for years 2018-2019 as outlined below. This rider applies to service supplied under all rate schedules except rate schedules OL, FL, PL, GL and NL for program years 2014-2019.

The Rider will recover the cost of Duke Energy Carolinas' Interruptible Service and Stand-By Generator programs ("Existing DSM Programs") based on the cost of bill credits and amounts paid to customers participating on these programs ("Program Costs"). Revenue requirements will be determined on a system basis and allocated to SC retail customer classes based on the class contribution to system peak demand.

GENERAL PROVISIONS

This Rider will recover the cost of the Company's energy efficiency and demand-side management programs beginning January 1, 2014, using the method approved by the PSCSC set forth in Order No. 2013-889.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be true-up on an annual basis as actual customer participation and actual kW and kWh impacts are verified. The true-up will reflect actual participation and EM&V results for the most recently completed vintage. If a customer participates in any vintage of programs, the customer is subject to the true-ups for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for Customers qualified to opt out of the programs where:

- a. The Customer has notified the Company in writing that it elects to opt out and that the opt-out customer has implemented its own energy management system or has performed or had performed for it an energy audit or analysis within the three year period preceding the opt out request and has implemented or has plans for implementing the cost-effective energy efficiency measures recommended in that audit or analysis; and
- b. Electric service to the Customer must be provided under:
 1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes; or
 2. An electric service agreement for general service as provided for under the Company's rate schedules where the Customer's annual energy use is 1,000,000 kilowatt hours or greater in the billing months of the prior calendar year. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

For Customers who elect to opt out of Energy Efficiency Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the designated annual two-month enrollment period. For the Rider EE 2019 Program Year, the enrollment period begins November 1, 2018 and ends December 31, 2018.
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt-out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

South Carolina Tenth Revised Leaf No. 62

Effective for service rendered from January 1, 2019 to December 31, 2019

PSCSC Docket No. 2018-XX-E

Order No. 2018-XXX

Duke Energy Carolinas, LLC

Electricity No. 4
South Carolina Tenth Revised Leaf No. 62
Superseding South Carolina Ninth Revised Leaf No. 62RIDER EE (SC)
ENERGY EFFICIENCY RIDER

For Customers who elect to opt out of Demand-Side Management Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1, and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out).
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have no further responsibility to pay Rider EE amounts associated with the Customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2019 through December 31, 2019 including revenue-related taxes and utility assessments are as follows:

Residential

Vintage 2014, 2015, 2016, 2017, 2018, 2019	<u>0.6605¢ per kWh</u>
Total Residential	0.6605¢ per kWh

Nonresidential

	<u>Energy Efficiency</u>	<u>Demand-Side Management</u>
2014 Vintage*	0.0015¢ per kWh	0.0010¢ per kWh
2015 Vintage*	0.0426¢ per kWh	0.0029¢ per kWh
2016 Vintage*	(0.0028)¢ per kWh	0.0006¢ per kWh
2017 Vintage*	0.5604¢ per kWh	0.0128¢ per kWh
2018 Vintage*	0.1267¢ per kWh	0.0058¢ per kWh
2019 Vintage*	0.5193¢ per kWh	0.1341¢ per kWh

Total Vintage 2014, 2015, 2016, 2017 and 2018, 2019	1.2477¢ per kWh	0.1572¢ per kWh
---	-----------------	-----------------

Total Nonresidential **1.4049¢ per kWh**

* Not Applicable to Rate Schedules OL, FL, PL, GL, and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out, will not apply to the bill.

South Carolina Tenth Revised Leaf No. 62
Effective for service rendered from January 1, 2019 to December 31, 2019
PSCSC Docket No. 2018-XX-E
Order No. 2018-XXX

Year 2014 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2014 - December 31, 2014
Docket No. 2018-XX-E
Calculation of Year 2014 True up of Shared Savings, Y1, Y2, Y3 and Y4 Lost Revenues

Residential Energy Efficiency Programs

Line		Rider 7 Revenue Requirement Year 2014 as approved	Rider 6 Estimate of Year 2 Lost Revenue	Rider 7 Estimate of Year 3 Lost Revenues	True-up to be Collected in Rider 8	Rider 8 Estimate of Year 4 Lost Revenues	True up to be Collected in Rider 9	True-Up to be Collected in Rider 10	Total Year 2014	
1	Residential EE Program Cost	\$ 10,155,146	Year 2014 Exh 2 (B * D)		\$ (0)			-	\$ 10,155,146	¹
2	Residential EE Earned Utility Incentive	1,816,721	Year 2014 Exh 2 (C * D)		32,481		100	\$ (100)	1,849,202	
3	Total EE Program Cost and Incentive Components	11,971,867	Year 2014 Exh 2 Line 10		32,481		100	(100)	12,004,348	^{1,2}
4	Residential DSM Program Cost	3,123,902	Year 2014 Exh 2 (B * E)		0			-	3,123,902	
5	Residential DSM Earned Utility Incentive	943,582	Year 2014 Exh 2 (C * E)		(7,397)			-	936,185	
6	Total DSM Program Cost and Incentive Components	4,067,484	Year 2014 Exh 2 Line 11		(7,397)			-	4,060,087	²
7	Residential Existing DSM Program Revenue Requirement	673,781	Rider 7, Year 2014 Exh 3					-	673,781	
8	Total EE/DSM Program Cost and Incentive Components	16,713,132	Line 3 + Line 6+ Line 7		25,084			(100)	16,738,216	
9	Revenue-related taxes and regulatory fees factor				1.004493		1.004468	1.004487		
10	Total EE/DSM Program Cost and Incentive Revenue Requirement	16,788,469	Line 8 * Line 9		25,197			(100)	16,813,566	
11	Residential Net Lost Revenues	3,325,700	R10 Exh 1 page 1 Line 11	1,334,764	2,841,941	1,957,679	1,817,583	\$ (106,029)	11,618,837	³
12	Total Residential EE Revenue Requirement	20,114,169	Line 10 + Line 11	1,334,764	2,841,941	1,982,876	447,198	\$ (106,129)	28,432,402	
13	Revenues Collected (less interest)	15,850,391	R10 Exh 2 Line 1						28,492,544	
14	Residential EE Revenue Requirement	4,263,778	Line 12-Line 13						\$ (60,141)	
15	Estimated Interest to be Recovered	\$ 358,296	R10 Exh 4 page 1 Line 12						34,084	
16	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	\$ 4,622,074	Line 14 + Line 15						\$ (26,057)	

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

	Reference	Rider 7 Revenue Requirement Year 2014 as approved	Rider 6 Estimate of Year 2 Lost Revenue	Rider 7 Estimate of Year 3 Lost Revenues	True-up to be Collected in Rider 8	Rider 8 Estimate of Year 4 Lost Revenues	True up Collected in Rider 9	True-Up to be Collected in Rider 10	Year 2014	
17	Non- Residential EE Program Cost	\$ 5,447,376	Year 2014 Exh 2 (B * D) Line 24		\$ (0)			-	\$ 5,447,376	¹
18	Non-Residential EE Earned Utility Incentive	2,852,657	Year 2014 Exh 2 (C * D) Line 24		13,233		16,769	(44,957)	2,837,702	
19	Total EE Program Cost and Incentive Components	8,300,033	Year 2014 Exh 2 Line 24		13,233		16,769	(44,957)	8,285,078	^{1,2}
20	Revenue-related taxes and regulatory fees factor	1.004508			1.004493		1.004468	1.004487		
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	8,337,450	Line 19 * Line 20		13,292			(45,158)	8,305,583	
22	Non-Residential Net Lost Revenues	825,574	R10 Exh 1 page 2 Line 25	1,615,418	1,583,800	77,190	814,387	3,632	5,056,669	³
23	Total Non-Residential EE Revenue Requirement	9,163,024	Line 21 + Line 22	1,615,418	1,583,800	90,482	814,387	(41,526)	13,362,252	
24	Revenues Collected (less interest)		R10 Exh 2 Line 10						13,332,094	
25	Non-Residential EE Revenue Requirement		Line 23 - Line 24						\$ 30,159	
26	Estimated Interest to be Recovered		R10 Exh 4 page 3 Line 12						41,088	
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest		Line 25 + line 26						\$ 71,247	
28	Projected SC Residential Sales (kWh)		R10 Exhibit 3 Page 1 Line 8						4,627,677,286	
29	SC Non-Residential EE billing factor (Cents/kWh)		Line 27 / Line 28 * 100						0.0015	

Non- Residential DSM Programs

		Year 2014 Revenue Requirement as Approved in Rider 9	True up	Year 2014 Revenue Requirement True up	
30	Non- Residential DSM Program Cost	\$ 4,554,210	\$ (0)	\$ 4,554,210	
31	Non-Residential DSM Earned Utility Incentive	1,364,826	(0)	1,364,826	
32	Total DSM Program Cost and Incentive Components	5,919,036	(0)	5,919,036	²
33	Non-Residential Existing DSM Program Revenue Requirement	982,783	-	982,783	
34	Total DSM Revenue Requirement	6,901,819	(0)	6,901,819	
35	Revenue-related taxes and regulatory fees factor		1.004487		
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	6,932,995	(0)	6,932,995	
37	Revenues Collected (less interest)			6,884,582	
38	Non-Residential DSM Revenue Requirement			48,413	
39	Estimated Interest Due			6,850	
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest			\$ 55,263	
41	Projected SC Non-Residential Sales (kWh)			5,562,575,682	
42	SC Non-Residential DSM billing factor			0.0010	

¹ Please note that there were adjustments to ORS program costs as a result of the Rider 7 program cost audit. \$136,514 and \$5,692 program costs were disallowed for residential and non-residential, respectively. This total will no longer tie to Year 2014 Exhibit 2.

² Details outlining the change in the program cost and incentive component can be found in Year 2014 Exh 2.

³ Updated lost revenues by year can be found in R10 Exh 1 page 1.

Year 2014 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2014
Docket Number 2018-XX-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

A										B		C= A + B		D		E = C * D									
Residential Programs										System kW Reduction - Summer Peak		System Energy Reduction (kWh)		System NPV of Avoided Cost		Total Cost		Earned Utility Incentive		System Cost Plus Incentive		SC Retail Kwh Sales Allocation Factor (Year 2014 Exhibit 3 Line 6)		SC Residential Revenue Requirement	
EE Programs																									
1 Appliance Recycling										709	5,100,458	\$ 1,752,715	\$ 1,512,066	\$ 27,675	\$ 1,539,741	26.97487%	\$ 415,343								
2 Energy Efficiency Education										735	6,991,608	5,052,883	1,956,496	356,084	2,312,580	26.97487%	623,815								
3 Energy Efficient Appliances and Devices										18,726	168,414,153	51,979,992	14,701,023	4,287,081	18,988,103	26.97487%	5,122,016								
4 HVAC Energy Efficiency										2,509	4,526,177	6,959,716	4,774,663	251,281	5,025,944	26.97487%	1,355,742								
5 Income Qualified Energy Efficiency and Weatherization Assistance										792	3,374,813	1,662,513	1,909,870		1,909,870	26.97487%	515,185								
6 Multi-Family Energy Efficiency										965	9,953,578	5,263,891	1,438,728	439,894	1,878,622	26.97487%	506,756								
7 Energy Assessments										1,312	10,599,335	12,723,705	3,595,650	1,049,726	4,645,376	26.97487%	1,253,084								
8 Total for Residential Conservation Programs										25,748	208,960,120	\$ 85,395,414	\$ 29,888,496	\$ 6,411,742	\$ 36,300,236		\$ 9,791,942								
9 My Home Energy Report (1)										39,424	146,011,689	\$ 12,121,111	\$ 8,264,278	443,536	8,707,814	26.97487%	2,348,921								
10 Total Residential Conservation and Behavioral Programs										65,172	354,971,809	\$ 97,516,525	38,152,772	\$ 6,855,279	\$ 45,008,051		\$ 12,140,862								

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Year 2014 Exhibit 3

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2014
Docket Number 2018-XX-E
Allocation Factor Year 2014

			<u>MWH</u>
Sales Allocator - 2013			
1	NC Retail MWH Sales, at Generation	Company Records	58,149,791
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	21,499,203
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	79,648,994
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,874
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	79,700,868
Allocation 1 to state based on kWh sales			
6	SC Retail	Line 2 / Line 5	26.97487%

Demand Allocators - 2013			NC MW	SC MW	Total MW
7	Residential	Company Records	5,051,778	1,491,798	6,543,576
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,119,392	2,174,831	8,294,223
9	Greenwood	Company Records	-	11,201	11,201
10	Total	Line 7 + Line 8+ Line 9	11,171,170	3,677,830	14,849,000
11	Wholesale Peak Demand	Company Records			1,067,981
12	Total System Peak Demand	Line 10 + Line 11			15,916,981
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	24.69277%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.04645%		
15	SC Non-residential	Line 8, SC / Line 10 Total	14.64631%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.37237%		
17	SC Non-residential	Line 8, SC / Line 12 Total	13.66359%		

Year 2015 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2015 - December 31, 2015
Docket No. 2018-XX-E
Calculation of Year 2015 True up of Shared Savings and Y1, Y2 and Y3 Lost Revenues and Estimate Y4 Lost Revenues

Residential Energy Efficiency Programs

Line			Rider 6 Year 2015 Estimate	Rider 7 Year 2 Lost Revenue Estimate	Rider 8 Year 3 Lost Revenue Estimate	True-up to be Collected in Rider 8	True-up to be Collected in Rider 9	Estimate of Year 4 Lost Revenue	True Up To be Collected in Rider 10	Year 2015
1	Residential EE Program Cost	Year 2015 Exh 2 (B * D)	\$ 11,501,369			\$ (1,186,566)	0		-	\$ 10,314,803
2	Residential EE Earned Utility Incentive	Year 2015 Exh 2 (C * D)	426,243			1,436,395	183,068		0	2,045,707
3	Total EE Program Cost and Incentive Components	Year 2015 Exh 2 Line 10	11,927,612			249,829	183,068		0	12,360,510
4	Residential DSM Program Cost	Year 2015 Exh 2 (B * E)	3,913,647			(883,234)	0		-	3,030,413
5	Residential DSM Earned Utility Incentive	Year 2015 Exh 2 (C * E)	1,037,481			(73,162)	(4,299)		(167)	959,853
6	Total DSM Program Cost and Incentive Components	Year 2015 Exh 2 Line 11	4,951,128			(956,396)	(4,299)		(167)	3,990,266
7	Residential Existing DSM Program Revenue Requirement	Rider 8 Year 2015 Exhibit 3 Line 3	734,223			(157,796)			-	576,427
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	17,612,963			(864,363)	178,769		(167)	16,927,203
9	Revenue-related taxes and regulatory fees factor		1.004517			1.004493	1.004493		1.004487	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	17,692,521			(868,246)	179,573		(167)	17,003,680
11	Residential Net Lost Revenues	R10 Exh 1 page 1 Line 36	3,125,109	1,655,188	2,664,819	914,189	1,079,208	1,143,018	153	10,581,683
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	20,817,630	1,655,188	2,664,819	45,942	1,258,781	1,143,018	(15)	27,585,363
13	Estimated Revenues Collected	R10 Exh 2 Line 2								27,477,391
14	Residential EE Revenue Requirement	Line 12 - Line 13								\$ 107,972
15	Estimated Interest to be Recovered	R10 Exh 4 page 3 Line 25								55,261
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15								\$ 163,233

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

			Rider 6 Year 2015 Estimate	Rider 7 Year 2 Lost Revenue Estimate	Rider 8 Year 3 Lost Revenue Estimate	True-up to be Collected in Rider 8	True-up to be Collected in Rider 9	Estimate of Year 4 Lost Revenue	True Up to be Collected in Rider 10	Year 2015
17	Non- Residential EE Program Cost	Year 2015 Exh 2 (B * D) Line 24	\$ 6,427,482			\$ 4,342,595	\$ (5)		0	\$ 10,770,072
18	Non-Residential EE Earned Utility Incentive	Year 2015 Exh 2 (C * D) Line 24	2,790,408			962,744	319,858		(229,135)	3,843,875
19	Total EE Program Cost and Incentive Components	Year 2015 Exh 2 Line 24	9,217,890			5,305,339	319,853		(229,135)	14,613,947
20	Revenue-related taxes and regulatory fees factor		1.004517			1.004493	1.004468		1.004487	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	9,259,527			5,329,175	321,282		(230,163)	14,679,822
22	Non-Residential Net Lost Revenues	R10 Exh 1 page 2 Line 50	860,328	2,798,965	2,476,910	548,406	27,510	1,189,630	(77,692)	7,824,057
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	10,119,855	2,798,965	2,476,910	5,877,581	348,792	1,189,630	(307,854)	22,503,879
24	Estimated Revenues Collected	R10 Exh 2 Line 9								20,683,396
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24								\$ 1,820,484
26	Estimated Interest to be Recovered	R10 Exh 4 page 3 Line 12								204,280
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26								\$ 2,024,764
28	Projected SC Residential Sales (kWh)	R10 Exhibit 3 Page 1 Line 10								4,757,192,872
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100								0.0426

Non- Residential DSM Programs

30	Non- Residential DSM Program Cost	Year 2015 Exh 2 (B * D) Line 26								
31	Non-Residential DSM Earned Utility Incentive	Year 2015 Exh 2 (C * D) Line 26								
32	Total DSM Program Cost and Incentive Components	Year 2015 Exh 2 Line 26								
33	Non- Residential Existing DSM Program Revenue Requirement	Rider 8 Year 2015 Exh 3 Line 3								
34	Total DSM Revenue Requirement	Line 32 + Line 33								
35	Revenue-related taxes and regulatory fees factor									
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35								
37	Estimated Revenues Collected	R10 Exhibit 2 Line 16								
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37								
39	Estimated Interest Due	R10 Exh 4 Page 3 Line 25								
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39								
41	Projected SC Non-Residential Sales (kWh)	R10 Exhibit 3 Page 1 Line 11								
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100								

Year 2015 Revenue Requirement as Approved in Rider 9	True up to be Collected in Rider 10	Year 2015 Revenue Requirement True up
\$ 4,928,506	\$ (0)	\$ 4,928,506
1,561,327	(272)	1,561,055
6,489,833	(272)	6,489,561
937,471	-	937,471
7,427,304	(272)	7,427,032
	1.004487	
7,467,895	(273)	7,467,622
		7,324,453
		143,168
		18,364
		\$ 161,532
		5,522,803,666
		0.0029

¹ Details outlining the change in the program cost and incentive component can be found in Year 2015 Exh 2. All amounts disallowed in the R8 ORS audit have been reflected in both year 2015 Exh 2 and Year 2015 Exh 1.

² Updated lost revenues by year can be found in R10 Exh 1 page 2. Year 2015 has been updated with most recent participation. Year 4 lost Revenues are shown as an estimate. They will be trued up in Rider 11.

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2015
Docket Number 2018-XX-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

[illegible]

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Year 2015 Exhibit 3

Duke Energy Carolinas
For the Period January 1, 2015 - December 31, 2015
Docket Number 2018-XX-E
Allocation Factor Year 2015

			<u>MWH</u>			
Sales Allocator - 2014						
1	NC Retail MWH Sales, at Generation	Company Records	59,567,575			
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,026,080			
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	81,593,655			
4	Greenwood Retail MWH Sales, at Generation	Company Records	54,449			
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	81,648,104			
Allocation 1 to state based on kWh sales						
6	SC Retail	Line 2 / Line 5	26.97684%			
Demand Allocators - 2014				<u>NC MW</u>	<u>SC MW</u>	<u>Total MW</u>
7	Residential	Company Records	4,994,057	1,459,126	6,453,183	
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,518,371	2,373,045	8,891,416	
9	Greenwood	Company Records	-	11,401	11,401	
10	Total	Line 7 + Line 8+ Line 9	11,512,428	3,843,572	15,356,000	
11	Wholesale Peak Demand	Company Records			1,211,771	
12	Total System Peak Demand	Line 10 + Line 11			16,567,771	
Allocation 2 to state based on peak demand						
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	24.95553%			
Allocation 3 SC res vs non-res Peak Demand to retail system peak						
14	SC Residential	Line 7,SC / Line 10 Total	9.50199%			
15	SC Non-residential	Line 8, SC / Line 10 Total	15.45354%			
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM						
16	SC Residential	Line 7,SC / Line 12 Total	8.80701%			
17	SC Non-residential	Line 8, SC / Line 12 Total	14.32326%			

Year 2016 Exhibit 1

Duke Energy Carolinas
For the period January 1, 2016 - December 31, 2016
Docket No. 2018-XX-E
Calculation of Year 2016 True up of Shared Savings, Y1 and Y2 Lost Revenues and Estimate Y3 Lost Revenues

Residential Energy Efficiency Programs

Line		
1	Residential EE Program Cost	Year 2016 Exh 2 (B * D)
2	Residential EE Earned Utility Incentive	Year 2016 Exh 2 (C * D)
3	Total EE Program Cost and Incentive Components	Year 2016 Exh 2 Line 10
4	Residential DSM Program Cost	Year 2016 Exh 2 (B * E)
5	Residential DSM Earned Utility Incentive	Year 2016 Exh 2 (C * E)
6	Total DSM Program Cost and Incentive Components	Year 2016 Exh 2 Line 11
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2016 Exhibit 3 Line 3
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R10 Exh 1 page 3 Line 61
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R10 Exh 2 Line 2
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R10 Exh 4 page 2 Line 12
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15

Rider 7 Year 2016 Estimate	Rider 8 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 9	Rider 9 Year 3 Lost Revenue Estimate	True Up to be Collected in Rider 10	Year 2016
\$ 11,482,088		\$ 3,178,895		\$ (0)	\$ 14,660,983
675,068		2,019,774		(22,174)	2,672,668
12,157,156		5,198,669		(22,174)	17,333,651
3,134,039		(116,010)		0	3,018,029
1,152,056		(58,775)		(9,614)	1,083,667
4,286,095		(174,785)		(9,614)	4,101,696
673,781		(86,148)		-	587,633
17,117,032		4,937,736		(31,788)	22,022,980
1.004517		1.004493		1.004487	
17,194,350		4,959,921		(31,931)	22,122,340
3,954,894	2,211,965	510,764	2,628,500	(290,071)	9,016,052
21,149,244	2,211,965	5,470,685	2,628,500	(322,002)	31,138,392
					31,342,186
					\$ (203,794)
					169,464
					\$ (34,330)

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

		Reference
17	Non- Residential EE Program Cost	Year 2016 Exh 2 (B * D) Line 24
18	Non-Residential EE Earned Utility Incentive	Year 2016 Exh 2 (C * D) Line 24
19	Total EE Program Cost and Incentive Components	Year 2016 Exh 2 Line 24
20	Revenue-related taxes and regulatory fees factor	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22
22	Non-Residential Net Lost Revenues	R10 Exh 1 page 3 Line 76
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24	Estimated Revenues Collected	R10 Exh 2 Line 8
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
26	Estimated Interest to be Recovered	R10 Exh 4 page 5 Line 12
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
28	Projected SC Residential Sales (kWh)	R10 Exhibit 3 Page 1 Line 21
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100

Rider 7 Year 2016 Estimate	Rider 8 Year 2 Lost Revenue Estimate	True-up to be Collected in Rider 9	Rider 9 Year 3 Lost Revenue Estimate	True Up to be Collected in Rider 10	Year 2016
\$ 13,492,828		\$ 4,824,922		\$ (1)	\$ 18,317,749
4,203,327		1,374,876		(132,190)	5,446,013
17,696,155		6,199,798		(132,191)	23,763,762
1.004517		1.004493		1.004487	
17,776,089		6,227,654		(132,784)	23,870,958
1,511,303	3,672,465	301,230	3,365,361	(1,365,590)	7,484,769
19,287,392	3,672,465	6,528,884	3,365,361	(1,498,374)	31,355,727
					31,723,050
					\$ (367,323)
					242,605
					\$ (124,719)
					4,487,117,809
					(0.0028)

Non- Residential DSM Programs

30	Non- Residential DSM Program Cost	Year 2016 Exh 2 (B * D) Line 26
31	Non-Residential DSM Earned Utility Incentive	Year 2016 Exh 2 (C * D) Line 26
32	Total DSM Program Cost and Incentive Components	Year 2016 Exh 2 Line 26
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2016 Exh 4 Line 3
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R10 Exhibit 2 Line 17
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R10 Exh 4 Page 5 Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R10 Exhibit 3 Page 1 Line 21
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100

Rider 7 Year 2016 Estimate	True-up to be Collected in Rider 9	True-up to be Collected in Rider 10	Year 2016 Revenue Requirement True up
\$ 4,568,988	\$ (417,013)	\$ (0)	\$ 4,151,975
1,679,535	(175,482)	(13,227)	1,490,826
6,248,523	(592,495)	(13,227)	5,642,801
982,277	(173,856)	-	808,421
7,230,800	(766,351)	(13,227)	6,451,222
1.004517	1.004493	1.004487	
7,263,462	(769,794)	(13,287)	6,480,381
			6,449,588
			30,792
			2,981
			\$ 33,773
			5,440,778,436
			0.0006

¹ Details outlining the change in the program cost and incentive component can be found in Year 2016 Exh 2.

² Updated lost revenues by year can be found in R10 Exh 1 page 3. Year 2017 has been updated with most recent participation. Year 3 Lost Revenues are shown as an estimate. They will be trued up in Rider 10. In addition, there is no projection for the final 1/2 year of lost revenue because for vintages prior to the test period filed in the rate case, lost revenue has been removed.

Year 2016 Exhibit 3

Duke Energy Carolinas
For the Period January 1, 2016 - December 31, 2016
Docket Number 2018-XX-E
Allocation Factor Year 2016

			MWH		
Sales Allocator - 2015					
1	NC Retail MWH Sales, at Generation	Company Records	60,762,752		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,311,058		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	83,073,810		
4	Greenwood Retail MWH Sales, at Generation	Company Records	53,197		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	83,127,007		
Allocation 1 to state based on kWh sales					
6	SC Retail	Line 2 / Line 5	26.83972%		
			NC MW	SC MW	Total MW
7	Residential	Company Records	5,403,520	1,703,204	7,106,724
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,525,765	2,343,137	8,868,902
9	Greenwood	Company Records	-	12,374	12,374
10	Total	Line 7 + Line 8+ Line 9	11,929,285	4,058,715	15,988,000
11	Wholesale Peak Demand	Company Records			1,458,384
12	Total System Peak Demand	Line 10 + Line 11			17,446,384
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	25.30861%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.65301%		
15	SC Non-residential	Line 8, SC / Line 10 Total	14.65560%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.76250%		
17	SC Non-residential	Line 8, SC / Line 12 Total	13.43050%		

Year 2017 Exhibit 1

Duke Energy Carolinas

For the period January 1, 2017 - December 31, 2017

Docket No. 2018-XX-E

Calculation of Year 2017 True up of Shared Savings and Y1 Lost Revenues and Estimate Y2 and Y3 Lost Revenues

Residential Energy Efficiency Programs

Line		
1	Residential EE Program Cost	Year 2017 Exh 2 (B * D)
2	Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D)
3	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 10
4	Residential DSM Program Cost	Year 2017 Exh 2 (B * E)
5	Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * E)
6	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 11
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exhibit 3 Line 3
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R10 Exh 1 page 3 Line 87
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R10 Exh 2 Line 2
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R10 Exh 4 page 2 Line 12
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15

Estimate of Year 3 Lost Revenues	
\$	895,081
	895,081
\$	895,081
\$	895,081

Rider 8	Rider 9 Year 2	True-up to be Collected	
Year 2017 Estimate	Lost Revenue Estimate	in Rider 10	Year 2017
\$ 12,383,092		\$ 5,273,485	\$ 17,656,577
1,384,934		2,008,972	3,393,906
13,768,026		7,282,457	21,050,483
2,997,324		251,290	3,248,614
1,117,352		68,938	1,186,290
4,114,676		320,228	4,434,904
576,427		22,800	599,227
18,459,129		7,625,485	26,084,614
1.004493		1.004487	
18,542,066		7,659,700	26,201,766
4,457,989	4,202,002	(7,892,791)	7,892,791
23,000,055	4,202,002	6,892,500	34,094,557
			24,025,903
			\$ 10,068,654
			874,895
			\$ 10,943,549

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

		Reference
17	Non- Residential EE Program Cost	Year 2017 Exh 2 (B * D) Line 24
18	Non-Residential EE Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 24
19	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 24
20	Revenue-related taxes and regulatory fees factor	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 21 * Line 22
22	Non-Residential Net Lost Revenues	R10 Exh 1 page 3 Line 98
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24	Estimated Revenues Collected	R10 Exh 2 Line 8
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
26	Estimated Interest to be Recovered	R10 Exh 4 page 5 Line 12
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
28	Projected SC Residential Sales (kWh)	R10 Exhibit 3 page 1 Line 21
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100

Estimate of Year 3 Lost Revenues	
\$	1,295,967
	1,295,967
\$	1,295,967
\$	1,295,967
	4,360,626,235
	0.0297

Rider 8	Rider 9 Year 2	True-up to be Collected	
Year 2017 Estimate	Lost Revenue Estimate	in Rider 10	Year 2017
\$ 14,343,825		\$ 12,031,371	\$ 26,375,196
4,131,457		3,136,348	7,267,805
18,475,282		15,167,719	33,643,001
1.004493		1.004487	
18,558,291		15,235,776	33,794,068
2,062,368	9,466,867	(3,297,251)	8,231,984
20,620,659	9,466,867	11,938,525	42,026,051
			20,706,802
			\$ 21,319,250
			1,821,660
			\$ 23,140,909
			4,360,626,235
			0.5307

Non- Residential DSM Programs

30	Non- Residential DSM Program Cost	Year 2017 Exh 2 (B * D) Line 26
31	Non-Residential DSM Earned Utility Incentive	Year 2017 Exh 2 (C * D) Line 26
32	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 26
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exh 4 Line 3
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R10 Exhibit 2 Line 17
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R10 Exh 4 Page 5 Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R10 Exhibit 3 Page 1 Line 21
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100

Rider 8	True-up to be Collected	
Year 2017 Estimate	in Rider 10	Year 2017 Revenue Requirement True up
\$ 4,874,691	\$ (377,480)	\$ 4,497,211
1,817,203	(174,966)	1,642,237
6,691,894	(552,446)	6,139,448
937,471	(107,933)	829,538
7,629,365	(660,379)	6,968,986
1.004517	1.004487	
7,663,827	(663,343)	7,000,484
		6,368,636
		631,848
		66,055
		\$ 697,903
		5,440,778,436
		0.0128

¹ Details outlining the change in the program cost and incentive component can be found in Year 2016 Exh 2.

² Updated lost revenues by year can be found in R9 Exh 1 page 3. Year 2016 has been updated with most recent participation. Year 2 Lost Revenues are shown as an estimate. They will be trued up in Rider 10.

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2018-XX-E
Actual Existing DSM Program Costs - Year 2017

Year 2017 Exhibit 3

		Year 2017	
1 Actual total IS/SG credits to be paid for native load programs	Line 9	\$ 6,051,059	
2 SC retail allocation factor - system peak demand	Year 2017 Exhibit 4, Line 16, 17	Residential 9.90284%	Non-residential 13.70897%
3 SC retail share IS/SG program costs	Line 1 * Line 2	\$ 599,227	\$ 829,538

<u>PROGRAM</u>	Jan - Dec 2017 Credits Paid
4 INTERRUPTIBLE SERVICE CREDITS	\$ 4,153,482
5 STANDBY GENERATOR PAYMENTS	356,590
6 WHOLESALE A/C LOAD CONTROL CREDITS	343,904
7 WHOLESALE INTERRUPTIBLE SERVICE CREDITS	1,196,147
8 Wholesale Penalties	935
9 TOTAL CREDITS	<u>\$ 6,051,059</u>

Note: Regulatory fee to be added to total revenue requirement on Vintage Year Exhibit.

Year 2017 Exhibit 4

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2018-XX-E
Allocation Factor Year 2017

			MWH		
Sales Allocator - 2016					
1	NC Retail MWH Sales, at Generation	Company Records	60,219,051		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,437,625		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	82,656,676		
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,859		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	82,708,535		
Allocation 1 to state based on kWh sales					
6	SC Retail	Line 2 / Line 5	27.12855%		
			NC MW	SC MW	Total MW
7	Residential	Company Records	5,545,784	1,791,145	7,336,929
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,573,854	2,479,566	9,053,420
9	Greenwood	Company Records	-	13,651	13,651
10	Total	Line 7 + Line 8+ Line 9	12,119,638	4,284,362	16,404,000
11	Wholesale Peak Demand	Company Records			1,683,179
12	Total System Peak Demand	Line 10 + Line 11			18,087,179
Allocation 2 to state based on peak demand					
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.03457%		
Allocation 3 SC res vs non-res Peak Demand to retail system peak					
14	SC Residential	Line 7,SC / Line 10 Total	10.91895%		
15	SC Non-residential	Line 8, SC / Line 10 Total	15.11562%		
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM					
16	SC Residential	Line 7,SC / Line 12 Total	9.90284%		
17	SC Non-residential	Line 8, SC / Line 12 Total	13.70897%		

Year 2017 Exhibit 5

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2018-xx-E
Actual Program Costs - Year 2017

	System Costs		
	Months of January 1,		
	2017 - December 31,		
	2017	Residential	Non-Residential
Energy Efficiency (EE) Programs:			
1 My Home Energy Report	\$ 13,786,373	13,786,373	
2 Energy Assessments	2,902,310	2,902,310	
3 Residential – Smart \$aver Energy Efficiency Program	7,387,527	7,387,527	
4 Energy Efficient Appliances and Devices	30,275,929	30,275,929	
Income Qualified Energy Efficiency and Weatherization			
5 Assistance	5,493,401	5,493,401	
6 Multi-Family Energy Efficiency	3,161,750	3,161,750	
7 Appliance Recycle Program	5,297	5,297	
8 Energy Efficiency Education	2,072,267	2,072,267	
9 Nonresidential Smart Saver Performance Incentives	313,256		313,256
10 Smart Saver Custom Technical Assessments	2,135,919		2,135,919
11 Smart Saver Custom	7,280,168		7,280,168
12 Smart Saver Efficient Food Service Products	305,687		305,687
13 Smart Saver Efficient HVAC Products	1,557,542		1,557,542
14 Smart Saver Efficient Lighting Products	66,551,086		66,551,086
15 Nonresidential Energy Efficient Pumps and Drives	527,539		527,539
16 Nonresidential Energy Efficient ITEE	60,885		60,885
17 Nonresidential Energy Efficient Process Equipment Products	161,937		161,937
18 Small Business Energy Saver	17,318,666		17,318,666
19 Smart Energy in Offices	884,119		884,119
20 Business Energy Report	126,219		126,219
21 Subtotal EE Program Costs	\$ 162,307,878	\$ 65,084,856	\$ 97,223,022
Demand-Side Management (DSM) Programs:			
22 Power Manager	\$ 13,991,587	\$ 13,991,587	
23 EnergyWise for Business	2,475,377		2,475,377
24 Power Share	13,285,111		13,285,111
25 Subtotal DSM Program Costs	\$ 29,752,076	\$ 13,991,587	\$ 15,760,488
26 Total EE & DSM Program Costs - Year 2016	\$ 192,059,953	\$ 79,076,443	\$ 112,983,510

Duke Energy Carolinas
Changes to DSM/EE Cost Recovery Vintage 2017 True Up January 1, 2017 - December 31, 2017
Changes from Prior Filing Due to Application of M&V and Participation
System kWh and kW Impacts Net Free Riders at the Plant

Residential Programs

Program Name	Filed in Docket		Filed in Docket		Overall Variance		2016-92-E	2018-XXXX-E	Delta	Variance attributable to Participation		Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances	
	2016-92-E		2018-XXXX-E														
	kWh	kW	kWh	kW	kWh	kW	System Participation		Participation	kWh	kW	kWh	kW	kWh	kW	kWh	kW
Appliance Recycling Program	-	-	-	-	-	-	-	-	1,535	-	-	-	-	-	-	-	-
Energy Efficiency Education Program for Schools	5,604,364	1,316	5,932,086	1,393	327,722	77	26,250	27,785	-	327,722	77	-	-	-	-	327,722	77
Energy Efficient Appliances and Devices	63,591,491	8,139	141,300,087	23,860	77,708,596	15,721	2,544,764	6,819,189	4,274,425	61,439,666	7,409	38,308,038	4,671	(22,039,109)	3,640	77,708,596	15,721
Residential – Smart Saver Energy Efficiency Program	-	-	8,545,577	2,478	8,545,577	2,478	-	27,311	27,311	-	-	8,545,577	2,478	-	-	8,545,577	2,478
Income Qualified Energy Efficiency and Weatherization Assistance	5,309,863	1,048	4,951,901	782	(357,962)	(266)	10,538	11,726	1,188	(538,363)	(13)	-	-	180,401	(253)	(357,962)	(266)
Multi-Family Energy Efficiency	12,687,532	1,190	19,056,155	1,918	6,368,623	729	186,948	356,003	169,055	(2,279,878)	(217)	8,648,501	946	-	-	6,368,623	729
Energy Assessments	7,923,133	981	8,131,752	1,274	208,618	293	8,038	52,546	44,508	-	-	208,618	293	-	-	208,618	293
My Home Energy Report	211,047,528	56,979	311,368,855	79,070	100,321,327	22,091	1,050,000	1,394,693	344,693	23,101,306	6,241	20,441,940	5,516	56,778,082	10,334	100,321,327	22,091
PowerManager	-	502,972	-	501,118	-	-	473,525	471,780	(1,745)	-	(1,854)	-	-	-	-	-	(1,854)
Residential Programs Total	306,163,911	572,625	499,286,413	611,894	193,122,502	39,269	4,300,063	9,161,033	4,860,970	82,050,453	11,643	76,152,674	13,905	34,919,374	13,721	193,122,502	39,269

Non-Residential Programs

Program Name	Filed in Docket		Filed in Docket		Overall Variance		2016-92-E	2018-XXXX-E	Delta	Variance attributable to Participation		Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances	
	2016-92-E		2018-XXXX-E														
	kWh	kW	kWh	kW	kWh	kW	System Participation		Participation	kWh	kW	kWh	kW	kWh	kW	kWh	kW
Non Residential Smart Saver Custom Technical Assessments	13,280,913	1,516	15,684,406	1,623	2,403,493	106	10,760	7	(10,753)	-	-	2,403,493	106	-	-	2,403,493	106
Non Residential Smart Saver Custom	90,101,969	10,286	41,782,082	6,204	(48,319,887)	(4,082)	73,002	40,133	(32,869)	-	-	(48,319,887)	(4,082)	-	-	(48,319,887)	(4,082)
Energy Management Information Systems	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Residential Smart Saver Energy Efficient Food Service Products	3,968,253	420	2,257,329	226	(1,710,925)	(195)	5,293	2,730	(2,563)	71,124	16	(1,884,089)	(227)	102,041	16	(1,710,925)	(195)
Non Residential Smart Saver Energy Efficient HVAC Products	6,253,763	2,791	3,382,708	1,031	(2,871,056)	(1,760)	121,841	3,016,407	2,894,566	722,995	(85)	(3,594,051)	(1,675)	-	-	(2,871,056)	(1,760)
Non Residential Smart Saver Energy Efficient Lighting Products	68,582,518	11,286	229,728,893	32,963	161,146,374	21,677	245,765	2,290,141	2,044,376	131,112,903	22,064	28,773,306	(336)	1,260,165	(51)	161,146,374	21,677
Non Residential Energy Efficient Pumps and Drives Products	4,745,697	599	3,470,697	496	(1,274,999)	(103)	4,347	4,361	14	464,688	15	-	-	(1,739,688)	(118)	(1,274,999)	(103)
Non Residential Energy Efficient ITEE	3,184,721	25	3,330	-	(3,181,391)	(25)	2,613	45	(2,568)	(50,144)	-	(3,131,247)	(25)	-	-	(3,181,391)	(25)
Non Residential Energy Efficient Process Equipment Products	564,086	131	577,560	87	13,474	(45)	1,509	8,936	7,427	170,159	41	200,454	27	(357,139)	(113)	13,474	(45)
Non Residential Smart Saver Performance Incentive	-	-	12,810	3	12,810	3	-	19	19	-	-	12,810	3	-	-	12,810	3
Smart Energy in Offices	42,174,681	8,778	10,272,154	2,138	(31,902,527)	(6,640)	48,421,359	26,824,711	(21,596,648)	(3,844,131)	(800)	(18,436,903)	(3,837)	(9,621,493)	(2,003)	(31,902,527)	(6,640)
Small Business Energy Saver	61,629,002	12,840	97,516,700	19,726	35,887,698	6,886	65,000,000	79,986,749	14,986,749	14,143,243	5,121	(31,069)	(6)	21,775,524	1,772	35,887,698	6,886
Business Energy Report	5,663,041	395	42,398	3	(5,620,643)	(392)	15,634	109	(15,525)	(5,620,643)	(392)	-	-	-	-	(5,620,643)	(392)
EnergyWise for Business	1,757,389	8,966	2,943,906	5,453	1,186,517	(3,512)	3,342	8,537	5,195	4,905,392	7,891	-	-	(3,718,875)	(11,403)	1,186,517	(3,512)
PowerShare CallOption	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PowerShare	-	371,367	-	340,369	-	(30,998)	349,625	320,442	(29,184)	-	(30,998)	-	-	-	-	-	(30,998)
Non-Residential Programs Total	301,906,034	429,400	407,674,973	410,321	105,768,939	(19,078)	114,255,090	112,503,327	(1,751,764)	142,075,586	2,873	(44,007,182)	(10,051)	7,700,535	(11,900)	105,768,939	(19,078)
Total Residential and Non-Residential Programs	608,069,945	1,002,025	906,961,386	1,022,216	298,891,440	20,191	118,555,154	121,664,360	3,109,206	224,126,039	14,516	32,145,492	3,854	42,619,909	1,821	298,891,440	20,191

NOTE - The actual per unit impacts are reflective of the following EM&V reports:

Program Name As Filed	Docket	Report Reference	Effective Date
Smart Saver® for Residential Customers	2013-298-E	Stevie Exhibit A - Carolinas - Res S\$ EE Products - EMV - Sept 28 2012	3/1/2012
	2013-298-E	Stevie Exhibit J - Carolinas - Prop Mgr CFL Prg-EMV - Feb 18 2013	10/1/2012
Residential Energy Assessments	2013-298-E	Stevie Exhibit G - Carolinas - Res Energy Assess HEHC-EMV-Feb 19 2013	12/1/2012
Smart Saver® for Residential Customers	2013-298-E	Stevie Exhibit E - Carolinas - Res HVAC-EMV- February 28 2013	10/1/2012
Residential Energy Assessments	2014-334-E	Process and Impact Evaluation of the Residential Energy Assessments Program (Personalized Energy Report®) in the Carolina System	9/1/2012
Smart Saver® for Non-Residential Customers Lighting	2013-298-E	Stevie Exhibit I - Carolinas - Final Non-Res Smart Saver-EMV- April 5 2013	10/1/2012
PowerManager	2014-334-E	Impact Evaluation and Review of the 2012 Power Manager® Program in the Carolina System (June 11, 2013)	1/1/2012
PowerShare	2014-334-E	Impact Evaluation and Review of the 2012 PowerShare® Program in the Carolina System (June 11, 2013)	1/1/2012
Energy Efficiency Education Program for Schools	2014-334-E	Impact Evaluation of the Energy Efficiency for Schools Program (The National Theatre for Children (NTC)) in the Carolinas System (August 21, 2013)	9/1/2012
Non-Residential Custom Program	2014-334-E	Smart Saver Custom - Final Process and Impact Evaluation Report - Nov 20 2013	1/1/2013
My Home Energy Report	2014-334-E	Process and Impact Evaluation of the My Home Energy Report (MyHER) Program in the Carolina System - Feb 20, 2014	11/1/2013
Smart Energy Now	2014-334-E	Impact Evaluation of the Smart Energy Now Program (NC) (Pilot) - Feb 21, 2014	1/1/2011
Appliance Recycling	2014-334-E	Process and Impact Evaluation of Duke Energy's Residential Appliance Recycling Program (ARP) in the Carolina System - Apr 25, 2014	1/1/2012
Income Qualified Energy Efficiency: Neighborhoods	2015-89-E	Process and Impact Evaluation of the 2013-2014 Residential Neighborhood Program in the Carolina System (November 14, 2014)	1/1/2012
Energy Efficient Appliances and Devices: Specialty Bulbs	2015-89-E	Process and Impact Evaluation of the Residential Energy Efficient Appliance and Devices: Lighting - Specialty Bulbs Program in the Carolina System (November 19, 2014)	4/1/2013
HVAC Energy Efficiency: Tune & Seal	2015-89-E	Evaluation of the Residential Smart Saver® Additional Measures Program in the Carolina System (December 10, 2014)	8/1/2012
Multi-Family Energy Efficiency	2016-92-E	Exhibit 9 - Multifamily Energy Efficiency Program; Evaluation, Measurement, and Verification for Duke Energy Carolinas (November 3, 2015)	5/1/2014
Energy Efficient Appliances and Devices	2016-92-E	Exhibit 9 - Save Energy and Water Kit Program Evaluation, Measurement, & Verification for Duke Energy Carolinas (November 18, 2015)	5/1/2014
Income Qualified EE and Weatherization Program	2017-65-E	Exhibit 9 – Duke Energy Carolinas 2015 Residential Neighborhoods Program Final Evaluation Report (December 5, 2016)	1/1/2016
Multi-Family Energy Efficiency	2017-65-E	Exhibit 9 – EM&V Report for the Duke Energy Multifamily Energy Efficiency Program (October 4, 2016)	3/1/2016
Non Residential Smart Saver Energy Efficient Food Service Products	2017-65-E	Exhibit 9F – Duke Energy Carolinas Smart Saver® Prescriptive Incentive Program (July 17, 2016)	8/1/2015
Non Residential Smart Saver Energy Efficient HVAC Products	2017-65-E	Exhibit 9F – Duke Energy Carolinas Smart Saver® Prescriptive Incentive Program (July 17, 2016)	8/1/2015
Non Residential Smart Saver Energy Efficient Lighting Products	2017-65-E	Exhibit 9F – Duke Energy Carolinas Smart Saver® Prescriptive Incentive Program (July 17, 2016)	8/1/2015
Non Residential Energy Efficient Process Equipment Products	2017-65-E	Exhibit 9F – Duke Energy Carolinas Smart Saver® Prescriptive Incentive Program (July 17, 2016)	8/1/2015
Non Residential Energy Efficient Pumps and Drives Products	2017-65-E	Exhibit 9F – Duke Energy Carolinas Smart Saver® Prescriptive Incentive Program (July 17, 2016)	8/1/2015
Energy Efficient Appliances and Devices	2017-65-E	Exhibit 9 - Save Energy and Water Kit Program - Revised April 12, 2016	3/1/2015
Small Business Energy Saver	2017-65-E	Exhibit 9 - EM&V Report for the Small Business Energy Saver Pogram Duke Energy Progress and Duke Energy Carolinas (September 27, 2016)	3/1/2016
PowerShare	2018-XX-E	Exhibit 5L - 2016 Evaluation Report for the Duke Energy Carolinas PowerShare® Program (January 1, 2017)	
Non Residential Smart Saver Custom	2018-XX-E	Exhibit 5F - Evaluation of the Smart Saver® Custom Incentive Program in North and South Carolina (February 13, 2017)	
My Home Energy Report	2018-XX-E	Exhibit 5C - My Home Energy Report Program Evaluation; Duke Energy Carolinas (February 16, 2017)	
PowerManager	2018-XX-E	Exhibit 5J - Duke Carolinas 2016 Power Manager Evaluation (April 11, 2017)	
Small Business Energy Saver	2018-XX-E	Exhibit 5H - EM&V Report for the Small Business Energy Saver Program Duke Energy Progress and Duke Energy Carolinas (June 6, 2017)	
Non Residential Smart Saver Custom Technical Assessments	2018-XX-E	Exhibit 5E - Non-Residential Assessments Program Year 2014-2016 Evaluation Report (June 8, 2017)	
EnergyWise for Business	2018-XX-E	Exhibit 5K - Duke Energy Carolinas and Progress EnergyWise for Business Programs Evaluation Report - Final (June 12, 2017)	
Multi-Family Energy Efficiency	2018-XX-E	Exhibit 5D - EM&V Report for the Duke Energy Multifamily Energy Efficiency Program (June 27, 2017)	
Non Residential Smart Saver Prescriptive Incentive Program	2018-XX-E	Exhibit 5G - Duke Energy Carolinas Smart Saver Prescriptive Incentive Program (August 4, 2017)	
Energy Efficient Appliances and Devices	2018-XX-E	Exhibit 5B - Save Energy and Water Kits 2016 Program Year Evaluation Report (November 29, 2017)	
Energy Efficient Appliances and Devices	2018-XX-E	Exhibit 5A - Duke Energy Carolinas Energy Efficient Appliances and Devices Program Final Evaluation Report (December 8, 2017)	
Smart Energy in Offices	2018-XX-E	Exhibit 5I - Duke Energy Carolinas Smart Energy in Offices Evaluation Report (December 15, 2017)	

Year 2018 Exhibit 1

Duke Energy Carolinas
Docket No. 2018-xx-E
Calculation of Year 2018 Estimate of Lost Revenues Year 2

Residential Energy Efficiency Programs		
Line	Reference	Year 2 Projections
1 Residential Net Lost Revenues - Year 2	R10 Exh 1 page 4 Line 109	\$2,340,939
2 Projected SC Residential Sales (kWh)	R10 Exh 3 Page 1 Line 3	6,505,643,783
3 SC Residential EE Billing Factor (Cents/kWh)	Line 1 / Line 2	0.0360
 Non-Residential Energy Efficiency Programs		
Line	Reference	Year 2 Projections
4 Non-Residential Net Lost Revenues - Year 2	R10 Exh 1 page 4 Line 125	\$4,168,069
5 Impact of Revised Rider 9 Forecast	R10 Exh 2 page 3 Line 43	1,267,537
6 Revised Total Revenue Requirement	Line 4 + Line 5	\$5,435,606
7 Projected SC Non-Residential EE Sales (kWh)	R10 Exh 3 Page 1 Line 16	4,288,473,998
8 SC Non-Residential EE Billing Factor (Cents/kWh)	Line 6 / Line 7	0.1267
 Non-Residential DSM Programs		
Line		Year 2 Projections
9 Impact of Revised Rider 9 Rider	R10 Exh 2 page 3 Line 46	313,603
10 Projected SC Non-Residential DSM Sales	R10 Exh 3 page 1 Line 17	5,376,159,681
11 SC Non-Residential DSM Billing Factor (Cents/kWh)	Line 9/Line 10	0.0058

Year 2019 Exhibit 1, Page 1

Duke Energy Carolinas
Docket No. 2018-xx-E
Calculation of Year 2019 Estimate of Earned Utility Savings and Lost Revenues Year 1

Energy Efficiency Programs		
Line	Reference	Year 1
1 Residential EE Program Cost	Year 2019 Exh 2 (B * E) Line 10	\$15,277,676
2 Residential EE Earned Utility Incentive	Year 2019 Exh 2 (C * E) Line 10	1,652,557
3 Total EE Program Cost and Incentive Components	Year 2019 Exh 2 Line 10	16,930,233
4 Residential DSM Program Cost	Year 2019 Exh 2 (B * E) Line 11	3,416,211
5 Residential DSM Earned Utility Incentive	Year 2019 Exh 2 (C * E) Line 11	1,169,437
6 Total DSM Program Cost and Incentive Components	Year 2019 Exh 2 Line 11	4,585,648
7 Residential Existing DSM Program Revenue Requirement Estimate	Year 2017 Exhibit 3 Line 3	599,227
8 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	22,115,108
9 Revenue-related taxes and regulatory fees factor		1.004487
10 Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	22,214,339
11 Residential Net Lost Revenues	R10 Exh 1 page 5 Line 130	6,730,566
12 Total Residential EE Revenue Requirement	Line 10 + Line 11	28,944,904
13 Projected SC Residential Sales (kWh)	R10 Exh 3 Page 1 Line 3	6,505,643,783
14 SC Residential EE Billing Factor (Cents/kWh)	Line 12 / Line 13*100	0.4449

Duke Energy Carolinas
Docket No. 2018-XX-E
Calculation of Year 2019 Estimated Earned Utility Savings and Year 1 Lost Revenue Estimate

Non-Residential Energy Efficiency Programs

Line	Reference	Year 1
1 Non- Residential EE Program Cost	Year 2019 Exh 2 (B * E) Line 25	\$15,526,930
2 Non-Residential EE Earned Utility Incentive	Year 2019 Exh 2 (C * E) Line 25	3,499,309
3 Total EE Program Cost and Incentive Components	Year 2019 Exh 2 Line 25	19,026,239
4 Revenue-related taxes and regulatory fees factor		1.004487
5 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 3 * Line 4	19,111,610
6 Non-Residential Net Lost Revenues	R10 Exh 1 p 5 Line 144	3,158,643
7 Total Non-Residential EE Revenue Requirement	Line 5 + Line 6	22,270,253
8 Projected SC Non-Residential Sales (kWh)	R10 Exh 3 Page 1 Line 16	4,288,473,998
9 SC Non-Residential EE billing factor (Cents/kWh)	Line 7 / Line 8 *100	0.5193

Non- Residential DSM Programs

		Year 1
10 Non-Residential DSM Program Cost	Year 2019 Exh 2 (B * E) Line 26	\$4,729,223
11 Non-Residential DSM Earned Utility Incentive	Year 2019 Exh 2 (C * E) Line 26	1,618,907
12 Total Non-Residential DSM Program Cost and Incentive Components	Year 2019 Exh 2 Line 26	6,348,130
13 Non-Residential Existing DSM Program Revenue Requirement	Year 2017 Exhibit 3 Line 3	829,538
14 Total Non-Residential SAW & Existing DSM Program Revenue Requirement	Line 12 + Line 13	7,177,668
15 Revenue-related taxes and regulatory fees factor		1.004487
16 Total Non-Residential DSM Revenue Requirement	Line 14 * Line 15	7,209,874
17 Projected SC Non-Residential Sales (kWh)	R10 Exh 3 p 1 Line 17	5,376,159,681
18 SC Non-Residential DSM billing factor	Line 16 / Line 17 * 100	0.1341

Duke Energy Carolinas For the Period January 1, 2019 - December 31, 2019 Docket Number 2018-XX-E Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program								Year 2019 Exhibit 2	
		A	B	(A-B)*11.5% = C	D= B + C	E	F = D * E		
Residential Programs		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	Total Cost	Total Cost Plus Incentive	SC Retail Kwh Sales Allocation Factor (Year 2019 Exhibit 3 Line 6)	SC Residential Revenue Requirement	
EE Programs					Earned Utility Incentive				
1 Appliance Recycling	-	-	\$ -	\$ -	\$ -	\$ -	27.12855%	\$ -	
2 Energy Efficiency Education	1,339	5,701,506	\$ 2,797,929	\$ 2,104,087	79,792	2,183,878	27.12855%	592,455	
3 Energy Efficient Appliances and Devices	16,726	97,320,521	\$ 55,852,076	\$ 21,726,700	3,924,418	25,651,118	27.12855%	6,958,776	
4 Residential – Smart Saver Energy Efficiency Program	1,294	5,130,696	\$ 4,890,111	\$ 4,802,289	10,100	4,812,389	27.12855%	1,305,531	
5 Income Qualified Energy Efficiency and Weatherization As:	639	4,043,435	\$ 1,636,154	\$ 7,905,880	-	7,905,880	27.12855%	2,144,751	
6 Multi-Family Energy Efficiency	2,001	19,846,385	\$ 10,313,595	\$ 3,382,816	797,040	4,179,856	27.12855%	1,133,934	
7 Energy Assessments	1,040	6,542,935	\$ 4,576,184	\$ 2,987,118	182,743	3,169,861	27.12855%	859,937	
8 Total for Residential Conservation Programs	23,038	138,585,479	80,066,048	\$ 42,908,890	\$ 4,994,092	\$ 47,902,982		\$ 12,995,384	
9 My Home Energy Report (1)	79,359	312,934,099	\$ 22,950,334	\$ 13,406,971	1,097,487	14,504,457	27.12855%	3,934,849	
10 Total Residential Conservation and Behavioral Programs	102,397	451,519,578	103,016,382	\$ 56,315,861	\$ 6,091,579	\$ 62,407,439		\$ 16,930,233	
							SC Residential Peak Demand Allocation Factor (Year 2019, Exhibit 3 Line 14)	D * E	
11 Total DSM Programs (2)	888,945	2,885,926	124,418,838	\$ 31,286,990	\$ 10,710,163	\$ 41,997,153	10.91895%	\$ 4,585,648	
12 Total Residential Revenue Requirement								21,515,881	
Non-Residential Programs		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	System Cost Plus Incentive	SC Retail Kwh Sales Allocation Factor (Year 2019 Exhibit 3 Line 6)	SC Residential Revenue Requirement	
EE Programs						Earned Utility Incentive			
13 Non Residential Smart Saver Customer Technical Assessm	1,008	8,831,594	\$ 3,698,308	\$ 1,618,240		\$ 239,208	\$ 1,857,447	27.12855%	\$ 503,898.57
14 Non Residential Smart Saver Custom	6,927	60,678,525	\$ 25,409,669	\$ 10,095,189		1,761,165	11,856,354	27.12855%	\$ 3,216,456.99
15 Non Residential Smart Saver Energy Efficient Food Service	1,159	10,601,930	\$ 5,648,131	\$ 2,010,534		418,324	2,428,857	27.12855%	\$ 658,913.77
16 Non Residential Smart Saver Energy Efficient HVAC Produc	5,012	13,318,652	\$ 13,089,905	\$ 5,762,803		842,617	6,605,420	27.12855%	\$ 1,791,954.59
17 Non Residential Smart Saver Energy Efficient Lighting Prod	16,312	122,943,286	\$ 66,283,662	\$ 17,828,618		5,572,330	23,400,948	27.12855%	\$ 6,348,337.79
18 Non Residential Energy Efficient Pumps and Drives	978	6,310,561	\$ 3,169,820	\$ 1,165,434		230,504	1,395,939	27.12855%	\$ 378,697.88
19 Non Residential Energy Efficient ITEE	50	6,503,152	\$ 1,766,979	\$ 749,325		117,030	866,356	27.12855%	\$ 235,029.71
20 Non Residential Energy Efficient Process Equipment Produ	129	1,052,919	\$ 542,592	\$ 240,281		34,766	275,046	27.12855%	\$ 74,616.09
21 Non Residential Smart Saver Performance Incentive	2,453	21,489,480	\$ 8,998,910	\$ 3,162,160		671,226	3,833,386	27.12855%	\$ 1,039,942.17
22 Small Business Energy Saver	14,501	75,258,073	\$ 40,791,801	\$ 14,602,066		3,011,820	17,613,885	27.12855%	\$ 4,778,391.64
23 Smart Energy in Offices	-	-	\$ -	\$ -		-	-	27.12855%	\$ -
24 Business Energy Report	-	-	\$ -	\$ -		-	-	27.12855%	\$ -
25 Total for Non-Residential Conservation Programs	48,530	326,988,173	169,399,778	\$ 57,234,649	\$ 12,898,990	\$ 70,133,638		\$ 19,026,239	
							SC Non -Residential Peak Demand Allocation Factor (Year 2019, Exhibit 3 Line 15)	D * E	
26 Total DSM Programs	888,945	2,885,926	124,418,838	\$ 31,286,990	10,710,163	\$ 41,997,153	15.11562%	\$ 6,348,130	
27 Total Non-Residential Revenue Requirement								25,374,369	
Total DSM Program Breakdown							SC Retail Peak Demand Allocation Factor (Year 2019, Exhibit 3 Line 13)	D * E	
28 Power Manager (Residential)	534,419	-	\$ 73,871,588	\$ 14,055,575	6,878,842	20,934,416			
29 EnergyWise for Business (Non-Residential)	16,662	2,885,926	\$ 3,845,128	\$ 3,967,504	(14,073)	3,953,431			
30 Power Share CallOption (Non-Residential)	-	-	-	-	-	-			
31 Power Share (Non-Residential)	337,864	-	\$ 46,702,121	\$ 13,263,911	3,845,394	17,109,305			
32 Total DSM	888,945	2,885,926	124,418,838	\$ 31,286,990	\$ 10,710,163	41,997,153	25.30861%	\$ 10,628,896	
33 Total All Programs	1,039,872	781,393,677	396,834,998	144,837,499	29,700,731	174,538,230		46,890,250	

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Year 2019 Exhibit 3

Duke Energy Carolinas
For the Period January 1, 2019 - December 31, 2019
Docket Number 2018-XX-E
Allocation Factor Estimate Year 2019

			MWH			
Sales Allocator - 2015						
1	NC Retail MWH Sales, at Generation	Company Records	60,219,051			
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,437,625			
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	82,656,676			
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,859			
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	82,708,535			
Allocation 1 to state based on kWh sales						
6	SC Retail	Line 2 / Line 5	27.12855%			
Demand Allocators - 2015				NC MW	SC MW	Total MW
7	Residential	Company Records	5,545,784	1,791,145	7,336,929	
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,573,854	2,479,566	9,053,420	
9	Greenwood	Company Records	-	13,651	13,651	
10	Total	Line 7 + Line 8+ Line 9	12,119,638	4,284,362	16,404,000	
11	Wholesale Peak Demand	Company Records			1,683,179	
12	Total System Peak Demand	Line 10 + Line 11			18,087,179	
Allocation 2 to state based on peak demand						
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.03457%			
Allocation 3 SC res vs non-res Peak Demand to retail system peak						
14	SC Residential	Line 7,SC / Line 10 Total	10.91895%			
15	SC Non-residential	Line 8, SC / Line 10 Total	15.11562%			
Allocation 4 SC res vs non-res Peak Demand to retail system peak for Existing DSM						
16	SC Residential	Line 7,SC / Line 12 Total	9.90284%			
17	SC Non-residential	Line 8, SC / Line 12 Total	13.70897%			

NOTE: We are continuing to use the allocation factor from 2015 as an estimate. The Company is required to use the latest filed cost of service study. The cost of service study for DEC SC will not be filed until June 2017.

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2019
Docket Number 2018-xx-E
South Carolina Lost Revenues Vintage Year 2014-2019

Year 2014		Participation						
		2014 (1/2 year)	2015	2016 ^(a)	2017 (1/2 year) ^(a)	2018	2019	Total
Residential								
1	Appliance Recycling	\$ 28,916	\$ 73,317	\$ 73,220	\$ 43,584			\$ 219,037
2	Energy Efficiency Education	46,748	132,542	132,357	84,435			396,082
3	Energy Efficient Appliances and Devices	1,242,614	2,657,737	2,653,742	1,378,882			7,932,975
4	HVAC Energy Efficiency	35,417	68,699	68,582	32,214			204,912
5	Income Qualified Energy Efficiency and Weatherization Assistance	32,406	62,687	62,617	29,285			186,995
6	Multi-Family Energy Efficiency	35,019	111,334	111,098	75,250			332,701
7	My Home Energy Report	1,828,818	-	-	-			1,828,818
8	Energy Assessments	113,312	187,813	187,560	71,155			559,840
9	Total Lost Revenues	\$ 3,363,250	\$ 3,294,130	\$ 3,289,177	\$ 1,714,804			\$ 11,661,361
10	Found Residential Revenue	11,211	14,175	14,175	2,964			42,525
11	Net Lost Residential Revenues	\$ 3,352,039	\$ 3,279,955	\$ 3,275,002	\$ 1,711,840			\$ 11,618,837
Non-Residential		2014 (1/2 year)	2015	2016 ^(a)	2017 (1/2 year) ^(a)	2018	2019	Total
12	Non-Residential Custom Technical Assessments	\$ 38,770	\$ 55,977	\$ 56,077	\$ 16,505			\$ 167,328
13	Non-Residential Custom	291,023	591,930	594,177	294,580			1,771,711
14	Energy Management Information Systems	-	-	-	-			-
15	Non-Residential Smart Saver Energy Efficient Food Service Products	13,081	17,374	17,421	3,992			51,867
16	Non-Residential Customers Smart Saver®- Energy Efficient HVAC Products	16,091	38,054	38,123	21,822			114,090
17	Non-Residential Smart Saver® - Energy Efficient Lighting Products	464,592	887,302	862,845	373,907			2,588,646
18	Non-Residential Energy Efficient Pumps and Drives Products	13,022	35,941	36,043	22,678			107,685
19	Non-Residential Energy Efficient ITEE	251	1,039	1,042	783			3,114
20	Non-Residential Energy Efficient Process Equipment Products	426	1,533	1,532	1,099			4,591
21	Small Business Energy Saver	7,536	90,107	90,039	82,573			270,256
22	Smart Energy in Offices	1,041	5,428	-	-			6,469
23	Total Lost Revenues	\$ 845,835	\$ 1,724,686	\$ 1,697,298	\$ 817,938			\$ 5,085,757
24	Found Non-Residential Revenue	6,388	9,696	9,696	3,308			29,088
25	Net Non-Residential Revenue	\$ 839,446	\$ 1,714,989	\$ 1,687,602	\$ 814,631			\$ 5,056,669

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2019
Docket Number 2018-xx-E
South Carolina Lost Revenues Vintage Year 2014-2019

Rider 10, Exhibit 1, Page 2

Year 2015		2014	2015 (1/2 year)	2016 ^(a)	2017 ^(a)	2018	2019	Total
Residential								
26	Appliance Recycling		\$ 42,084	\$ 78,530	\$ 78,299	\$ 36,133	\$	235,046
27	Energy Efficiency Education Program for Schools		22,398	64,563	64,374	36,014		187,349
28	Energy Efficient Appliances and Devices		1,243,191	2,082,649	2,076,546	820,870		6,223,257
29	HVAC Energy Efficiency		38,085	68,587	68,387	30,055		205,114
30	Income Qualified Energy Efficiency and Weatherization Assistance		27,717	49,210	49,066	21,062		147,056
31	Multi-Family Energy Efficiency		83,286	174,419	173,914	85,492		517,112
32	My Home Energy Report		2,494,338	-	-	-		2,494,338
33	Energy Assessments		112,623	191,847	191,282	76,660		572,412
34	Total Lost Revenues		\$ 4,063,721	\$ 2,709,806	\$ 2,701,867	\$ 1,106,288	\$	10,581,683
35	Found Residential Revenue		-	-	-	-		-
36	Net Lost Residential Revenue		\$ 4,063,721	\$ 2,709,806	\$ 2,701,867	\$ 1,106,288	\$	10,581,683
Non-Residential								
37	Non Residential Smart Saver Custom Technical Assessments		\$ -	\$ -	\$ -	\$ -	\$	-
38	Non Residential Smart Saver Custom		161,118	297,731	298,222	131,561		888,633
39	Non Residential Smart Saver Energy Efficient Food Service Products		8,672	14,608	14,626	5,807		43,714
40	Non Residential Smart Saver Energy Efficient HVAC Products		25,013	41,466	41,605	16,100		124,185
41	Non Residential Smart Saver Energy Efficient Lighting Products		503,262	837,360	810,323	308,219		2,459,164
42	Non Residential Energy Efficient Pumps and Drives Products		21,482	30,380	30,466	8,754		91,082
43	Non Residential Energy Efficient ITEE		86	99	99	13		296
44	Non Residential Energy Efficient Process Equipment Products		-	-	-	-		-
45	Small Business Energy Saver		687,783	1,384,241	1,385,040	661,946		4,119,010
46	Smart Energy in Offices		70,504	24,200	-	-		94,705
47	EnergyWise for Business		112	1,342	1,342	1,006		3,802
48	Total Lost Revenues		\$ 1,478,033	\$ 2,631,427	\$ 2,581,724	\$ 1,133,407	\$	7,824,591
49	Found Non-Residential Revenue		-	72	72	389		533
50	Net Lost Residential Revenue		1,478,033	2,631,354	2,581,651	1,133,019		7,824,057

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific program participation.

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2019
Docket Number 2018-xx-E
South Carolina Lost Revenues Vintage Year 2014-2019

Rider 10 Exhibit 1, Page 3

Year 2016		2014	2015	2016 (1/2 year) ^(a)	2017 ^(a)	2018	2019	Total
Residential								
51	Appliance Recycling			\$ 1,156	\$ 2,445	\$ 1,834		\$ 5,435
52	Energy Efficiency Education Program for Schools			49,651	113,539	85,155		248,346
53	Energy Efficient Appliances and Devices			912,502	1,984,438	1,488,329		4,385,269
54	HVAC Energy Efficiency			25,732	65,424	49,068		140,224
55	Income Qualified Energy Efficiency and Weatherization Assistance			30,156	64,811	48,609		143,576
56	Multi-Family Energy Efficiency			107,545	232,892	174,669		515,107
57	My Home Energy Report			3,249,461	-	-		3,249,461
58	Energy Assessments			80,627	141,718	106,288		328,634
59	Total Lost Revenues			\$ 4,456,831	\$ 2,605,269	\$ 1,953,952		\$ 9,016,052
60	Found Residential Revenue			-	-	-	-	-
61	Net Lost Residential Revenue			\$ 4,456,831	\$ 2,605,269	\$ 1,953,952		\$ 9,016,052
Non-Residential								
62	Smart Saver® for Non-Residential Custom Assessments			\$ 12,263	\$ 71,091	\$ 53,318		\$ 136,673
63	Smart Saver® for Non-Residential Custom Incentives			101,444	182,977	137,232		421,653
64	Smart Saver® for Non-Residential Customers - Energy Efficient Food Service Products			19,479	92,293	69,220		180,992
65	Smart Saver® for Non-Residential Customers - HVAC			23,846	40,687	30,515		95,048
66	Smart Saver® for Non-Residential Customers - Energy Efficient Lighting Products			804,138	1,793,295	1,335,915		3,933,348
67	Smart Saver® for Non-Residential Customers - Pumps and Drives Products			9,796	23,804	17,853		51,453
68	Smart Saver® for Non-Residential Customers - Energy Efficient ITEE			34	79	59		173
69	Smart Saver® for Non-Residential Customers - Energy Efficient Process Equipment Products			1,882	2,731	2,048		6,662
70	Smart Saver® for Non-Residential Customers - Small Business Energy Saver			559,122	1,134,713	851,035		2,544,870
71	Smart Saver® for Non-Residential Customers - Smart Energy in Office			70,822	24,541	-		95,363
72	Business Energy Report			-	-	-		-
73	EnergyWise for Business			5,895	11,102	8,327		25,324
74	Total Lost Revenues			\$ 1,608,722	\$ 3,377,313	\$ 2,505,523		\$ 7,491,557
75	Found Non-Residential Revenue			2,614	2,385	1,789	-	6,788
76	Net Lost Residential Revenue			1,606,108	3,374,927	2,503,734		7,484,769

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2019
Docket Number 2018-xx-E
South Carolina Lost Revenues Vintage Year 2014-2019

Rider 10, Exhibit 1, Page 4

	Year 2017	2014	2015	2016	2017 (1/2 year) ^(a)	2018	2019	Total
Residential								
77 Appliance Recycling					\$ -	\$ -	\$ -	\$ -
78 Energy Efficiency Education Program for Schools					55,354	87,517	48,233	191,104
79 Energy Efficient Appliances and Devices					1,268,363	2,065,857	699,142	4,033,362
80 Residential – Smart \$aver Energy Efficiency Program					61,259	90,069	25,079	176,407
81 Income Qualified Energy Efficiency and Weatherization Assistance					45,026	62,221	20,840	128,087
82 Multi-Family Energy Efficiency					128,153	172,889	65,726	366,768
83 My Home Energy Report					3,641,670	-	-	3,641,670
84 Energy Assessments					87,550	126,862	36,061	250,474
85 Total Lost Revenues					\$ 5,287,375	\$ 2,605,416	\$ 895,081	\$ 8,787,871
86 Found Residential Revenue					-	-	-	-
87 Net Lost Residential Revenue					\$ 5,287,375	\$ 2,605,416	\$ 895,081	\$ 8,787,871
Non-Residential								
88 Non Residential Smart Saver Custom Technical Assessments					\$ 98,727	\$ 109,727	\$ -	\$ 208,454
89 Non Residential Smart Saver Custom					359,181	389,704	42,212	791,096
90 Non Residential Smart Saver Energy Efficient Food Service Products					9,829	12,784	2,249	24,862
91 Non Residential Smart Saver Energy Efficient HVAC Products					33,488	45,499	6,493	85,479
92 Non Residential Smart Saver Energy Efficient Lighting Products					2,004,711	2,639,281	683,095	5,327,087
93 Non Residential Energy Efficient Pumps and Drives Products					7,150	11,813	5,151	24,115
94 Non Residential Energy Efficient ITEE					23	30	-	53
95 Non Residential Energy Efficient Process Equipment Products					3,851	12,685	9,057	25,593
96 Small Business Energy Saver					878,196	1,468,012	528,437	2,874,644
96 Smart Energy in Offices					73,273	26,992	-	100,266
96 EnergyWise for Business					13,213	33,814	19,275	66,302
97 Business Energy Report					-	-	-	-
96 Total Lost Revenues					\$ 3,481,642	\$ 4,750,342	\$ 1,295,967	\$ 9,527,951
97 Found Non-Residential Revenue					-	-	-	-
98 Net Lost Residential Revenue					3,481,642	4,750,342	1,295,967	9,527,951

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2019
Docket Number 2018-xx-E
South Carolina Lost Revenues Vintage Year 2014-2019

Rider 10, Exhibit 1, Page 5

Year 2018		2014	2015	2016	2017	2018 (1/2 year) ^(a)		2019	Total
Residential									
99	Appliance Recycling					\$	-	\$	-
100	Energy Efficiency Education Program for Schools						58,705	110,566	169,272
101	Energy Efficient Appliances and Devices						981,510	1,630,729	2,612,239
102	Residential – Smart \$aver Energy Efficiency Program						41,403	52,279	93,682
103	Income Qualified Energy Efficiency and Weatherization Assistance						54,727	103,074	157,802
104	Multi-Family Energy Efficiency						163,566	308,061	471,627
105	My Home Energy Report						5,463,642	-	5,463,642
106	Energy Assessments						72,331	136,229	208,561
107	Total Lost Revenues					\$	6,835,885	\$	2,340,939
108	Found Residential Revenue						-	-	-
109	Net Lost Residential Revenue					\$	6,835,885	\$	2,340,939
Non-Residential		2014	2015	2016		2018 (1/2 year) ^(a)		2019	Total
110	Non Residential Smart Saver Custom Technical Assessments					\$	124,035	\$	248,320
111	Non Residential Smart Saver Custom						523,869	1,048,797	1,572,666
112	Non Residential Smart Saver Energy Efficient Food Service Products						4,814	10,033	14,847
113	Non Residential Smart Saver Energy Efficient HVAC Products						28,449	62,468	90,917
114	Non Residential Smart Saver Energy Efficient Lighting Products						548,862	1,161,935	1,710,797
115	Non Residential Energy Efficient Pumps and Drives Products						14,031	31,949	45,980
116	Non Residential Energy Efficient ITEE						22,835	53,766	76,601
117	Non Residential Energy Efficient Process Equipment Products						1,454	3,434	4,888
118	Non Residential Smart Saver Performance Incentive						84,795	169,761	254,556
119	Small Business Energy Saver						510,644	1,354,356	1,865,000
120	Smart Energy in Offices						77,693	-	77,693
121	EnergyWise for Business						22,334	23,250	45,584
122	Business Energy Report						-	-	-
123	Total Lost Revenues					\$	1,963,814	\$	4,168,069
124	Found Non-Residential Revenue						-	-	-
125	Net Lost Residential Revenue						1,963,814	4,168,069	6,131,884

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2019
Docket Number 2018-xx-E
South Carolina Lost Revenues Vintage Year 2014-2019

Rider 10, Exhibit 1, Page 6

Year 2019		2014	2015	2016	2017	2018	2019 (1/2 year) ^(a)	Total
Residential								
126	Energy Efficiency Education Program for Schools						50,314	50,314
127	Energy Efficient Appliances and Devices						918,462	918,462
128	Residential – Smart \$aver Energy Efficiency Program						54,686	54,686
129	Income Qualified Energy Efficiency and Weatherization Assistance						45,898	45,898
130	Multi-Family Energy Efficiency						214,215	214,215
131	My Home Energy Report						5,369,925	5,369,925
132	Energy Assessments						77,065	77,065
133	Total Lost Revenues						\$ 6,730,566	\$ 6,730,566
134	Found Residential Revenue						-	-
135	Net Lost Residential Revenue						\$ 6,730,566	\$ 6,730,566
Non-Residential		2014	2015	2016		2018	2019 (1/2 year) ^(a)	Total
136	Non Residential Smart Saver Custom Technical Assessments						\$ 69,778	\$ 69,778
137	Non Residential Smart Saver Custom						417,092	417,092
138	Non Residential Smart Saver Energy Efficient Food Service Products						127,411	127,411
139	Non Residential Smart Saver Energy Efficient HVAC Products						173,259	173,259
140	Non Residential Smart Saver Energy Efficient Lighting Products						1,433,533	1,433,533
141	Non Residential Energy Efficient Pumps and Drives Products						80,276	80,276
142	Non Residential Energy Efficient ITEE						82,559	82,559
143	Non Residential Energy Efficient Process Equipment Products						12,856	12,856
144	Non Residential Smart Saver Performance Incentive						147,714	147,714
145	Small Business Energy Saver						590,741	590,741
146	EnergyWise for Business						23,424	23,424
147	Total Lost Revenues						\$ 3,158,643	\$ 3,158,643
148	Found Non-Residential Revenue						-	-
149	Net Lost Residential Revenue						3,158,643	3,158,643

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2018
Docket Number 2017-xx-E
DSM/EE Actual Revenues Collected from Years 2014- 2016 (By Vintage)
and Estimated 2018 Collections from Rider 9 (By Vintage)

Line				Actual	Actual	Actual	Actual	Actuals	Estimated	Total Revenue Estimated Collected through 2018
				2014	2015	2016	2017		2018	
	New Mechanism			Rider 5	Rider 6	Rider 7	Rider 8	Total	Rider 9	
Residential										
1	EE and DSM	2014		15,850,391	5,091,529	5,949,515	1,121,328	28,012,764	479,780	28,492,544
2	EE and DSM	2015			16,272,294	5,212,244	3,566,456	25,050,995	2,426,396	27,477,391
3	EE and DSM	2016				18,936,713	4,209,049	23,145,762	8,196,424	31,342,186
4	EE and DSM	2017					22,373,744	22,373,744	1,652,159	24,025,903
5	EE and DSM	2018							29,955,401	29,955,401
6	Interest	2014				358,296	226,334	584,630	26,480	611,110
7	Interest	2015					355,176	355,176	167,752	522,928
8	Interest	2016					-	-	729,500	729,500
9	Interest	2017						-		-
Non-Residential										
10	EE	2014		4,914,295	2,245,959	4,559,482	607,104	12,326,840	1,005,254	13,332,094
11	EE	2015			5,475,152	4,020,808	9,438,922	18,934,882	1,748,514	20,683,396
12	EE	2016				14,145,231	5,235,479	19,380,711	12,342,340	31,723,050
13	EE	2017					17,081,335	17,081,335	3,625,467	20,706,802
14	EE	2018						-	21,549,848	21,549,848
15	EE Interest	2014				422,949	129,830	552,779	104,539	657,318
16	EE Interest	2015					1,046,313	1,046,313	378,146	1,424,459
17	EE Interest	2016					-	-	1,152,892	1,152,892
18	EE Interest	2017						-		-
19	DSM	2014		4,898,790	1,303,762	375,524	252,328	6,830,404	54,178	6,884,582
20	DSM	2015			5,257,163	1,409,288	579,530	7,245,982	78,472	7,324,453
21	DSM	2016				5,730,973	687,354	6,418,327	31,261	6,449,588
22	DSM	2017					6,368,636	6,368,636		6,368,636
23	DSM	2018							6,607,583	6,607,583
24	DSM Interest	2014				178,020	24,317	202,337	16,089	218,426
25	DSM Interest	2015					178,893	178,893	32,129	211,022
26	DSM Interest	2016					-		54,403	54,403
27	DSM Interest	2017								-
28 Total Revenue Collected				\$ 25,663,476	\$ 35,645,860	\$ 61,299,043	\$ 73,482,128	\$ 81,837,397	\$ 92,415,006	\$ 288,505,514

¹ Actual 2014, 2015 and 2016 Revenue Source: Rider 9 Exhibit 2 Docket 2017-65-E as filed in conjunction with the Office of Regulatory Staff's review of Duke Energy Carolinas, LLC Application for Approval of Rider 9.

² Estimated 2018 Revenue Source: R10 Exh 2 page 2. The estimated revenue has been revised from the final Rider 9 filing to reflect correction of the forecast used in Rider 9 to exclude lighting. In order to calculate interest properly, the component of interest that is estimated to be collected related to prior year collection of revenues has been segregated from the revenue requirement.

Duke Energy Carolinas
For the Period January 1, 2014 - December 31, 2018
Docket Number 2017-XX-E
Revised Estimated 2018 Collections

Rider 10 Exhibit 2 page 2 of 3

		Revised Estimated 2018 Collections	Rider 9 Final
Residential Billing Factor 1 Costs to be Recovered for Year 2014 True Up 2 Costs to be Recovered for Year 2015 True up 3 Cost to be Recovered for Year 2016 True up 4 Total Cost to be Recovered Vintages Year 2014, Year 2015 and Year 2016 True-ups 5 Projected SC Residential Sales (kWh) for rate period 6 Revenue Requirement True-up Component for Residential Rider EE (cents per kWh)	Year 2014 Exhibit 1, Line 16	506,260	506,260
	Year 2015 Exhibit 1, Line 16	1,451,130	1,451,130
	Year 2016 Exhibit 1, line 16	6,297,424	6,297,424
	Line 1 through line 3	\$ 8,254,814	8,254,814
	R9 Exhibit 3, Page 1 Line 3	6,540,356,263	6,540,356,263
	Line 4 / Line 5 * 100	0.1262	0.1262
7 Costs to be Recovered for Vintage Year 2015 Prospective Amounts 8 Costs to be Recovered for Vintage Year 2016 Prospective Amounts 9 Costs to be Recovered for Vintage Year 2017 Prospective Amounts 10 Costs to be Recovered for Vintage Year 2018 Prospective Amounts 11 Less: Costs to be Recovered through Solar Access Fee 12 Total Prospective Components of Residential Revenue Requirement 13 Projected SC Residential Sales (kWh) for rate period 14 Revenue Requirement Year Prospective Component for Residential Rider EE (cents per kWh)	Year 2015 Exhibit 1, Line 16	1,143,018	1,143,018
	Year 2016 Exhibit 1, Line 16	2,628,500	2,628,500
	Year 2017 Exhibit 1 Line 1	1,652,159	1,652,159
	Year 2018 Exhibit 1, pg 1 Line 12	30,054,409	30,054,409
	R9 Exhibit 3 page 2	99,008	99,008
	Line 7 through Line 11	\$ 35,379,079	\$ 35,379,079
15 Total Revenue Requirement for Residential Rider EE 16 Total Revenue Requirement for Residential Rider EE (cents per kWh)	R9 Exhibit 3, Page 1 Line 3	6,540,356,263	6,540,356,263
	Line 12 / Line 13 * 100	0.5409	0.5409
	Line 4 + Line 12	\$ 43,633,893	43,633,893
	Line 6 + Line 14	0.6671	0.6671

Non-Residential Billing Factors for Rider 9 True-Up Components

16 Total Vintage Year 2014 True-Up EE Revenue Requirement - Vintage Year 2014 EE Participant 17 Projected Vintage Year 2014 EE Participants SC Non-Residential Sales (kwh) for rate period 18 EE Revenue Requirement Vintage Year 2014 True-up Non-Residential Rider EE (cents per kWh)	Year 2014 Exhibit 1 Line 27	\$ 1,109,793	1,169,637
	R9 Exhibit 3, Page 1 Line 8	4,954,433,049	5,225,420,299
	Line 16/Line 17 * 100	0.0224	0.0224
19 Total Vintage Year 2014 DSM True Up Revenue Requirement - Vintage Year 2014 DSM Participant 20 Projected Vintage Year 2014 DSM Participants SC Non-Residential Sales (kwh) for rate period 21 DSM Revenue Requirement Vintage Year 2014 True-up Non-Residential Rider EE (cents per kWh)	Year 2014 Exhibit 1 Line 40	\$ 70,267	71,053
	R9 Exhibit 3, Page 1 Line 9	5,855,602,645	6,126,589,895
	Line 19/Line 20 * 100	0.0012	0.0012
22 Total Vintage Year 2015 True-Up EE Revenue Requirement - Vintage Year 2015 EE Participant 23 Projected Vintage Year 2015 EE Participants SC Non-Residential Sales (kwh) for rate period 24 EE Revenue Requirement Vintage Year 2015 True-up Non-Residential Rider EE (cents per kWh)	Year 2015 Exhibit 1 Line 27	\$ 994,810	1,046,777
	R9 Exhibit 3, Page 1 Line 10	5,075,559,799	5,346,547,049
	Line 22/Line 23 * 100	0.0196	0.0196
25 Total Vintage Year 2015 DSM True Up Revenue Requirement - Vintage Year 2015 DSM Participant 26 Projected Vintage Year 2015 DSM Participants SC Non-Residential Sales (kwh) for rate period 27 DSM Revenue Requirement Vintage Year 2015 True-up Non-Residential Rider EE (cents per kWh)	Year 2015 Exhibit 1 Line 40	\$ 110,601	114,476
	R9 Exhibit 3, Page 1 Line 11	5,821,088,189	6,092,075,439
	Line 25/Line 26 * 100	0.0019	0.0019
28 Total Vintage Year 2016 True-Up EE Revenue Requirement - Vintage Year 2016 EE Participant 29 Projected Vintage Year 2016 EE Participants SC Non-Residential Sales (kwh) for rate period 30 EE Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Year 2016 Exhibit 1 Line 27	\$ 10,309,785	10,895,195
	R9 Exhibit 3, Page 1 Line 12	4,768,633,093	5,039,620,343
	Line 28/Line 29 * 100	0.2162	0.2162
31 Total Vintage Year 2016 DSM True Up Revenue Requirement - Vintage Year 2016 DSM Participant 32 Projected Vintage Year 2016 DSM Participants SC Non-Residential Sales (kwh) for rate period 33 DSM Revenue Requirement Vintage Year 2016 True-up Non-Residential Rider EE (cents per kWh)	Year 2016 Exhibit 1 Line 40	\$ 85,664	90,216
	R9 Exhibit 3, Page 1 Line 13	5,710,962,215	5,981,949,465
	Line 31/Line 32 * 100	0.0015	0.0015

Non-Residential Billing Factors for Rider 9 Prospective Components

34 Total Vintage Year 2015 Prospective EE Revenue Requirement - Vintage Year 2015 EE Participant 35 Projected Vintage Year 2015 EE Participants SC Non-Residential Sales (kwh) for rate period 36 EE Revenue Requirement Vintage Year 2015 Lost Revenues Non-Residential Rider EE (cents per kWh)	Year 2015 Exhibit 1, Line 27	\$ 1,131,850	1,189,630
	R9 Exhibit 3, Page 1 Line 10	5,075,559,799	5,346,547,049
	Line 34/Line 35 * 100	0.0223	0.0223
37 Total Vintage Year 2016 Prospective EE Revenue Requirement - Vintage Year 2016 EE Participant 38 Projected Vintage Year 2016 EE Participants SC Non-Residential Sales (kwh) for rate period 39 EE Revenue Requirement Vintage Year 2016 Lost Revenues Non-Residential Rider EE (cents per kWh)	Year 2016 Exhibit 1, Line 27	\$ 3,185,447	3,365,361
	R9 Exhibit 3, Page 1 Line 12	4,768,633,093	5,039,620,343
	Line 37/Line 38 * 100	0.0668	0.0668
40 Total Vintage Year 2017 Prospective EE Revenue Requirement - Vintage Year 2017 EE Participant 41 Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period 42 EE Revenue Requirement Vintage Year 2017 Program Costs and Lost Revenues Non-Residential Rider EE (cents per kWh)	Year 2017 Exhibit 1, Line 4	\$ 3,625,467	3,838,481
	R9 Exhibit 3, Page 2 Line 14	4,612,553,064	4,883,540,314
	Line 40/Line 41 * 100	0.0786	0.0786
43 Total Vintage Year 2018 Prospective EE Revenue Requirement - Vintage Year 2018 EE Participant 44 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period 45 EE Revenue Requirement Vintage Year 2018 Program Costs and Lost Revenues Non-Residential Rider EE (cents per kWh)	Year 2018 Exhibit 1, Pg. 2, Line 7	\$ 21,549,848	22,817,385
	R9 Exhibit 3, Page 2 Line 16	4,612,553,064	4,883,540,314
	Line 43/Line 44 * 100	0.4672	0.4672
46 Total Vintage Year 2018 Prospective DSM Revenue Requirement - Vintage Year 2018 DSM Participant 47 Projected Vintage Year 2018 DSM Participants SC Non-Residential Sales (kwh) for rate period 48 DSM Revenue Requirement Vintage Year 2018 Program Costs Non-Residential Rider EE (cents per kWh)	Year 2018 Exhibit 1, Pg. 2, Line 16	\$ 6,607,583	6,921,186
	R9 Exhibit 3, Page 2 Line 17	5,710,962,215	5,981,949,465
	Line 46/Line 47 * 100	0.1157	0.1157

Duke Energy Carolinas
For the Period January 1, 2016 - December 31, 2016
Docket Number 2017-XX-E
Revised Forecasted kWh Sales for Years 2014-2018

Fall 2016 Sales Forecast - kWhs

Adjusted SC Retail Sales Forecast (excludes Greenwood sales)		2018 Sales	Factor to Exclude Greenwood Sales from Forecast	2017 MWh Usage	Percent to Total
1 Residential	Company Records	6,588,051,781	Total SC Residential Sales	6,646,567	
2 Factor to exclude Greenwood	see calc. to right	99.27603%	Greenwood Residential Sales	48,119	
3 Residential sales excluding Greenwood	Line 1*Line 2	6,540,356,263	SC Residential Sales excluding Greenwood	6,598,448	99.27603%
4 Non-Residential (excluding lighting)	Company Records	14,769,208,102	Total SC Non-Residential Sales (excluding lighting)	14,675,357	
5 Factor to exclude Greenwood	see calc. to right	99.97671%	Greenwood Non-Residential Sales (exc. lighting)	3,418	
6 Non-Residential sales excluding Greenwood	Line 4*Line 5	14,765,768,353	SC Non-Residential Sales excluding Greenwood	14,671,939	99.97671%
7 Total Retail sales excluding Greenwood	Line 3 + Line 6	21,306,124,616	Total SC Retail Sales (excluding lighting)	21,321,925	
			Greenwood Retail Sales (excluding lighting)	51,537	
			SC Retail Sales excluding Greenwood (exc. lighting)	21,270,388	

Opt Out Sales

	Total Retail Sales	Less: Opt Outs	Net Retail Sales
Year 2014			
8 EE	14,765,768,353	9,811,335,304	4,954,433,049
9 DSM	14,765,768,353	8,910,165,708	5,855,602,645
Year 2015			
10 EE	14,765,768,353	9,690,208,554	5,075,559,799
11 DSM	14,765,768,353	8,944,680,164	5,821,088,189
Year 2016			
12 EE	14,765,768,353	9,997,135,260	4,768,633,093
13 DSM	14,765,768,353	9,054,806,138	5,710,962,215
Year 2017			
14 EE	14,765,768,353	10,153,215,289	4,612,553,064
15 DSM	14,765,768,353	9,054,806,138	5,710,962,215
Year 2018			
16 EE	14,765,768,353	10,153,215,289	4,612,553,064
17 DSM	14,765,768,353	9,054,806,138	5,710,962,215

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2018-XX-E
Forecasted kWh Sales for Years 2014-2019

Fall 2017 Sales Forecast - kWhs

Adjusted SC Retail Sales Forecast (excludes Greenwood sales)		2019 Sales	Factor to Exclude Greenwood Sales from Forecast	2018 MWh Usage	Percent to Total
1 Residential	Company Records	6,550,498,320	Total SC Residential Sales	6,249,734	
2 Factor to exclude Greenwood	see calc. to right	99.31525%	Greenwood Residential Sales	42,795	
3 Residential sales excluding Greenwood	Line 1*Line 2	6,505,643,783	SC Residential Sales excluding Greenwood	6,206,939	99.31525%
4 Non-Residential (excluding lighting)	Company Records	14,691,588,839	Total SC Non-Residential Sales (excluding lighting)	14,573,797	
5 Factor to exclude Greenwood	see calc. to right	99.97683%	Greenwood Non-Residential Sales (exc. lighting)	3,377	
6 Non-Residential sales excluding Greenwood	Line 4*Line 5	14,688,184,798	SC Non-Residential Sales excluding Greenwood	14,570,420	99.97683%
7 Total Retail sales excluding Greenwood	Line 3 + Line 6	21,193,828,581	Total SC Retail Sales (excluding lighting)	20,823,532	
			Greenwood Retail Sales (excluding lighting)	46,172	
			SC Retail Sales excluding Greenwood (exc. lighting)	20,777,360	

Opt Out Sales

	Total Retail Sales	Less: Opt Outs	Net Retail Sales
Year 2014			
8 EE	14,688,184,798	10,060,507,512	4,627,677,286
9 DSM	14,688,184,798	9,125,609,116	5,562,575,682
Year 2015			
10 EE	14,688,184,798	9,930,991,926	4,757,192,872
11 DSM	14,688,184,798	9,165,381,132	5,522,803,666
Year 2016			
12 EE	14,688,184,798	10,201,066,989	4,487,117,809
13 DSM	14,688,184,798	9,247,406,362	5,440,778,436
Year 2017			
14 EE	14,688,184,798	10,327,558,563	4,360,626,235
15 DSM	14,688,184,798	9,247,406,362	5,440,778,436
Year 2018			
16 EE	14,688,184,798	10,399,710,800	4,288,473,998
17 DSM	14,688,184,798	9,312,025,117	5,376,159,681
Year 2019			
18 EE	14,688,184,798	10,399,710,800	4,288,473,998
19 DSM	14,688,184,798	9,312,025,117	5,376,159,681

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2018-XX-E
Forecasted kWh Net Metering Impacts for Year 2019

Summary:

SC Residential customers participating in the net Metering program are being charged a solar access fee. This fee includes a component of EE recovery.
Non-residential customers participating in the net Metering program are assumed to be opted out of the EE programs and their fee does not include an EE component.
Revenue collected as a part of this solar access fee will offset the revenue requirement of the EE rider.
Since revenue collected is not assigned a vintage, it will be subtracted from the total revenue requirment requested on Exhibit A.

	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
Projected Installed Nameplate Capacity	40,586	40,586	40,586	40,586	40,586	40,586	40,586	40,586	40,586	40,586	40,586	40,586
Current Solar Access Fee Rate (\$/kW)	0.5286	0.5286	0.5286	0.5286	0.5286	0.5286	0.5286	0.5286	0.5286	0.5286	0.5286	0.5286
Amount collected per month	21,455	21,455	21,455	21,455	21,455	21,455	21,455	21,455	21,455	21,455	21,455	21,455
	257,455											

Duke Energy Carolinas
For the Period January 2014 - December 31, 2018
Docket Number 2017-XX-E
Residential Interest Calculation - Year 2014 -2015

Residential

Year 2014		2014	2015	2016	2017	2018	Total
1 Revenue Requirement	Year 2014 Exhibit 1	\$ 22,097,045	\$ 1,781,962	\$ 2,735,812	\$ 1,817,583		\$ 28,432,402
2 Revenue Collections	Rider 10, Exhibit 2	15,850,391	5,091,529	5,949,515	1,121,328	479,780	28,492,544
3 (Over) / Under Collection	Line 1 - Line 2	6,246,654	(3,309,567)	(3,213,703)	696,255	(479,780)	(60,141)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	6,246,654	2,937,087	(276,616)	419,639	(60,141)	
5 Average Balance (Over)/Under Collection		3,123,327	4,591,870	1,330,235	71,511	179,749	
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005782	0.005782	0.005782	
7 Number of Months		12	12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 216,709	\$ 318,602	\$ 92,297	\$ 4,962	\$ 12,472	\$ 645,042
9 Interest Paid (Returned) in Prior Rider	R9 Exh 2 Line 5						611,110
10 Interest Due - Rider 10	Line 8 - Line 9						\$ 33,932
11 Gross Receipts Tax							1.004487
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ 34,084
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

Year 2015		2015	2016	2017	2018	Total
14 Revenue Requirement	Year 2015 Exhibit 1	\$ 20,863,572	\$ 2,913,969	\$ 2,664,804	\$ 1,143,018	\$ 27,585,363
15 Revenue Collections	Rider 10, Exhibit 2	16,272,294	5,212,244	3,566,456	2,426,396	27,477,391
16 (Over) / Under Collection	Line 1 - Line 2	4,591,278	(2,298,275)	(901,652)	(1,283,378)	107,972
17 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	4,591,278	2,293,003	1,391,350	107,972	
18 Average Balance (Over)/Under Collection		2,295,639	3,442,140	1,842,177	749,661	
19 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005782	0.005782	
20 Number of Months		12	12	12	12	
21 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 159,281	\$ 238,829	\$ 127,818	\$ 52,015	\$ 577,942
22 Interest Paid (Returned) in Prior Rider	R9 Exh 2 Line 6					522,928
23 Interest Due - Rider 10	Line 8 - Line 9					\$ 55,014
24 Gross Receipts Tax						1.004487
25 Interest Due - including GRT - Rider 10	Line 10 * Line 11					\$ 55,261
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

Duke Energy Carolinas
For the Period January 2014 - December 31, 2018
Docket Number 2018-XX-E
Residential Interest Calculation - Year 2016 - 2017

Residential

Year 2016		<u>2016</u>	<u>2017</u>	<u>2018</u>		<u>Total</u>
1 Revenue Requirement	Year 2016 Exhibit 1	\$ 26,619,929	\$ 1,889,963	\$ 2,628,500		\$ 31,138,392
2 Revenue Collections	Rider 10, Exhibit 2	18,936,713	4,209,049	8,196,424	Note B	31,342,186
3 (Over) / Under Collection	Line 1 - Line 2	7,683,215	(2,319,086)	(5,567,924)		(203,794)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	7,683,215	5,364,130	(203,794)		
5 Average Balance (Over)/Under Collection		3,841,608	6,523,673	2,580,168		
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782	0.005782		
7 Number of Months		12	12	12		
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 266,546	\$ 452,638	\$ 179,022		\$ 898,207
9 Interest Paid (Returned) in Prior Rider	N/A					729,500
10 Interest Due - Rider 10	Line 8 - Line 9					\$ 168,707
11 Gross Receipts Tax						1.004487
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11					\$ 169,464
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A		

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 10 Exhibit 2, page 1 of 3.

Year 2017		<u>2017</u>	<u>2018</u>		<u>Total</u>
1 Revenue Requirement	Year 2017 Exhibit 1	\$ 29,892,555	\$ 4,202,002		\$ 34,094,557
2 Revenue Collections	Rider 10, Exhibit 2	22,373,744	1,652,159	Note B	24,025,903
3 (Over) / Under Collection	Line 1 - Line 2	7,518,811	2,549,843		10,068,654
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	7,518,811	10,068,654		
5 Average Balance (Over)/Under Collection		3,759,406	8,793,733		
6 Monthly rate (WACC)	Line 13/12	0.005782	0.005782		
7 Number of Months		12	12		
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 260,843	\$ 610,144		\$ 870,987
9 Interest Paid (Returned) in Prior Rider	N/A				-
10 Interest Due - Rider 10	Line 8 - Line 9				\$ 870,987
11 Gross Receipts Tax					1.004487
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11				\$ 874,895
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A		

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 2 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 10 Exhibit 2, page 1 of 3.

Duke Energy Carolinas
For the Period January 2014 - December 31, 2018
Docket Number 2018-xx-E
Non-Residential Interest Calculation - Year 2014

Non-Residential

Year 2014 - Energy Efficiency		<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total</u>
1 Revenue Requirement	Year 2014 Exhibit 1	\$ 9,253,506	\$ 1,752,086	\$ 1,542,274	\$ 814,387		\$ 13,362,252
2 Revenue Collections	Rider 10, Exhibit 2	4,914,295	2,245,959	4,559,482	607,104	1,005,254	13,332,094
3 (Over) / Under Collection	Line 1 - Line 2	4,339,211	(493,873)	(3,017,208)	207,283	(1,005,254)	30,159
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	4,339,211	3,845,337	828,129	1,035,413	30,159	
5 Average Balance (Over)/Under Collection		2,169,605	4,092,274	2,336,733	931,771	532,786	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 150,536	\$ 283,938	\$ 162,132	\$ 64,650	\$ 36,967	\$ 698,223
9 Interest Paid (Returned) in prior rider	R9 Exh 2 Line 12						657,318
10 Interest Due - Rider 10	Line 8 - Line 9						\$ 40,905
11 Gross Receipts Tax							1.004487
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ 41,088
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

Year 2014 - DSM		<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total</u>
14 Revenue Requirement	Year 2014, Exhibit 1	\$ 6,932,995	\$ -	\$ -			\$ 6,932,995
15 Revenue Collections	Rider 10, Exhibit 2	4,898,790	1,303,762	375,524	252,328	54,178	6,884,582
16 (Over) / Under Collection	Line 14 - Line 15	2,034,204	(1,303,762)	(375,524)	(252,328)	(54,178)	48,413
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	2,034,204	730,442	354,919	102,591	48,413	
18 Average Balance (Over)/Under Collection		1,017,102	1,382,323	542,680	228,755	75,502	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 70,571	\$ 95,911	\$ 37,653	\$ 15,872	\$ 5,239	225,246
22 Interest Paid (Returned) in Prior Rider	R9 Exh 2 Line 19						218,426
23 Interest Due - Rider 10	Line 21 - Line 22						\$ 6,820
24 Gross Receipts Tax							1.004487
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24						\$ 6,850
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 4 (Year 2014) lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 10 Exhibit 2, page 1 of 3.

Duke Energy Carolinas
For the Period January 2014 - December 31, 2018
Docket Number 2018-xx-E
Non-Residential Interest Calculation Year 2015

Non-Residential

Year 2015 - Energy Efficiency		<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>		<u>Total</u>
1 Revenue Requirement before interest	Year 2015 Exhibit 1	\$ 15,997,437	\$ 3,147,757	\$ 2,169,056	\$ 1,189,630		\$ 22,503,879
2 Revenue Collections	Rider 10, Exhibit 2	5,475,152	4,020,808	9,438,922	1,748,514	NOTE B	20,683,396
3 (Over) / Under Collection	Line 1 - Line 2	10,522,284	(873,051)	(7,269,866)	(558,884)		1,820,484
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	10,522,284	9,649,234	2,379,367	1,820,484		
5 Average Balance (Over)/Under Collection		5,261,142	10,085,759	6,014,301	2,099,926		
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	0.5782%		
7 Number of Months		12	12	12	12		
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 365,039	\$ 699,790	\$ 417,296	\$ 145,701		\$ 1,627,827
9 Interest Paid (Returned) in prior rider	R9 Exh 2 Line 13						1,424,459
10 Interest Due - Rider 10	Line 8 - Line 9						\$ 203,368
11 Gross Receipts Tax							1.004487
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11						\$ 204,280
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A		

NOTE A: Docket 2013-59-E
NOTE B: Estimated 2015 Y4 lost Revenue and revenue collected have been included in the interest true-up at the anticipated collection amount.

Year 2015 - DSM		<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>		<u>Total</u>
14 Revenue Requirement before interest	Year 2015, Exhibit 1	\$ 7,467,622	\$ -				\$ 7,467,622
15 Revenue Collections	Rider 10, Exhibit 2	5,257,163	1,409,288	579,530	78,472	NOTE B	7,324,453
16 (Over) / Under Collection	Line 14 - Line 15	2,210,459	(1,409,288)	(579,530)	(78,472)		143,168
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	2,210,459	801,170	221,640	143,168		
18 Average Balance (Over)/Under Collection		1,105,229	1,505,815	511,405	182,404		
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	0.5782%		
20 Number of Months		12	12	12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 76,685	\$ 104,479	\$ 35,483	\$ 12,656		229,304
22 Interest Paid (Returned) in Prior Rider	R9 Exh 2 Line 20						211,022
23 Interest Due - Rider 10	Line 21 - Line 22						\$ 18,282
24 Gross Receipts Tax							1.004487
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24						\$ 18,364
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A		

NOTE A: Docket 2013-59-E
NOTE B: Estimated 2015 Y4 lost Revenue and revenue collected have been included in the interest true-up at the anticipated collection amount.

Duke Energy Carolinas
For the Period January 2014 - December 31, 2018
Docket Number 2018-xx-E
Non-Residential Interest Calculation Year 2016

Non-Residential

Year 2016 - Energy Efficiency		2016	2017	2018	Total
1 Revenue Requirement before interest	Year 2016 Exhibit 1	\$ 25,816,275	\$ 2,174,091	\$ 3,365,361	\$ 31,355,727
2 Revenue Collections	Rider 10, Exhibit 2	14,145,231	5,235,479	12,342,340	31,723,050
3 (Over) / Under Collection	Line 1 - Line 2	11,671,044	(3,061,388)	(8,976,979)	(367,323)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	11,671,044	8,609,655	(367,323)	
5 Average Balance (Over)/Under Collection		5,835,522	10,140,350	4,121,166	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	0.5782%	
7 Number of Months		12	12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 404,892	\$ 703,578	\$ 285,943	\$ 1,394,413
9 Interest Paid (Returned) in prior rider	N/A				1,152,892
10 Interest Due - Rider 10	Line 8 - Line 9				\$ 241,521
11 Gross Receipts Tax					1.004487
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11				\$ 242,605
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed 2018 collection on Rider 10 Exhibit 2, page 1 of 3.

Year 2016 - DSM		2016	2017	2018	Total
14 Revenue Requirement before interest	Year 2016, Exhibit 1	\$ 6,480,381	\$ -		\$ 6,480,381
15 Revenue Collections	Rider 10, Exhibit 2	5,730,973	687,354	31,261	6,449,588
16 (Over) / Under Collection	Line 14 - Line 15	749,408	(687,354)	(31,261)	30,792
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	749,408	62,054	30,792	
18 Average Balance (Over)/Under Collection		374,704	405,731	46,423	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5782%	
20 Number of Months		12	12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 25,998	\$ 28,151	\$ 3,221	57,371
22 Interest Paid (Returned) in Prior Rider	N/A				54,403
23 Interest Due - Rider 10	Line 21 - Line 22				\$ 2,968
24 Gross Receipts Tax					1.004487
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24				\$ 2,981
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated 2018 revenue included at revised requested amount shown on Rider 10 Exhibit 2, page 1 of 3.

Duke Energy Carolinas
For the Period January 2014 - December 31, 2018
Docket Number 2018-xx-E
Non-Residential Interest Calculation Year 2017

Non-Residential

Year 2017 - Energy Efficiency		2017	2018	Total
1 Revenue Requirement before interest	Year 2017 Exhibit 1	\$ 32,559,184	\$ 9,466,867	\$ 42,026,051
2 Revenue Collections	Rider 10, Exhibit 2	17,081,335	3,625,467	20,706,802
3 (Over) / Under Collection	Line 1 - Line 2	15,477,849	5,841,400	21,319,250
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	15,477,849	21,319,250	
5 Average Balance (Over)/Under Collection		7,738,925	18,398,550	
6 Monthly rate (WACC)	Line 13/12	0.5782%	0.5782%	
7 Number of Months		12	12	
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$ 536,958	\$ 1,276,565	\$ 1,813,523
9 Interest Paid (Returned) in prior rider	N/A			-
10 Interest Due - Rider 10	Line 8 - Line 9			\$ 1,813,523
11 Gross Receipts Tax				1.004487
12 Interest Due - including GRT - Rider 10	Line 10 * Line 11			\$ 1,821,660
13 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated Year 2 lost revenue and revenue collections have been included in the interest true-up. Assumed collection at on Rider 10 Exhibit 2, page 1 of 3.

Year 2017 - DSM		2017	2018	Total
14 Revenue Requirement before interest	Year 2017, Exhibit 1	\$ 7,000,484		\$ 7,000,484
15 Revenue Collections	Rider 10, Exhibit 2	6,368,636	-	6,368,636
16 (Over) / Under Collection	Line 14 - Line 15	631,848	-	631,848
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	631,848	631,848	
18 Average Balance (Over)/Under Collection		315,924	631,848	
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	
20 Number of Months		12	12	
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 21,920	\$ 43,840	65,760
22 Interest Paid (Returned) in Prior Rider	N/A			-
23 Interest Due - Rider 10	Line 21 - Line 22			\$ 65,760
24 Gross Receipts Tax				1.004487
25 Interest Due - including GRT - Rider 10	Line 23 * Line 24			\$ 66,055
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	

NOTE A: Docket 2013-59-E

NOTE B: Estimated 2018 revenue included at revised requested amount on Rider 10 Exhibit 2, page 1 of 3.

EM&V Activities

Planned Evaluation, Measurement and Verification (EM&V) Activities through the rate period (Dec. 31, 2018)

Evaluation is a term adopted by Duke Energy Carolinas (DEC), and refers generally to the systematic process of gathering information on program activities, quantifying energy and demand impacts, and reporting overall effectiveness of program efforts. Within evaluation, the activity of measurement and verification (M&V) refers to the collection and analysis of data at a participating facility/project. Together this is referred to as "EM&V."

Refer to the accompanying Evans Exhibit 12 chart for a schedule of process and impact evaluation analysis and reports that are currently scheduled.

Energy Efficiency Portfolio Evaluation

DEC has contracted with independent, third-party evaluation consultants to provide the appropriate EM&V support, including the development and implementation of an evaluation plan designed to measure the energy and demand impacts of the residential and non-residential energy efficiency programs.

Typical EM&V activities:

- Develop evaluation action plan
- Process evaluation interviews
- Collect program data
- Verify measure installation and performance through surveys and/or on-site visits
- Program database review
- Impact data analysis
- Reporting

The process evaluation provides unbiased information on past program performance, current implementation strategies and opportunities for future program improvements. Typically, the data collection for process evaluation consists of surveys with program management, implementation vendor(s), program partner(s), and participants; and, in some cases, non-participants. A statistically representative sample of participants will be selected for the analysis.

The impact evaluation provides energy and demand savings resulting from the program. Impact analysis may involve engineering analysis (formulas/algorithms), billing analysis, statistically adjusted engineering methods, and/or building simulation models, depending on the program and the nature of the impacts. Data collection may involve surveys and/or site visits. A statistically representative sample of participants is selected for the analysis. Duke Energy Carolinas intends to follow industry-accepted methodologies for all measurement and

verification activities, consistent with International Performance Measurement Verification Protocol (IPMVP) Options A, C or D depending on the measure.

The field of evaluation is constantly learning from ongoing data collection and analysis, and best practices for evaluation, measurement and verification continually evolve. As updated best practices are identified in the industry, DEC will consider these and revise evaluation plans as appropriate to provide accurate and cost-effective evaluation.

Demand Response Program Evaluation

DEC has contracted with independent, third-party evaluation consultants to provide an independent review of the evaluation plan designed to measure the demand impacts of the residential and non-residential demand response programs and the final results of that evaluation.

Typical EM&V activities:

- Collect program data
- Process evaluation interviews
- Verify operability and performance through on-site visits
- Collect interval data
- Program database review
- Benchmarking research
- Dispatch optimization modeling
- Impact data analysis
- Reporting

The process evaluation provides unbiased information on past program performance, current implementation strategies and opportunities for future improvements. Typically, the data collection for process evaluation consists of surveys with program management, implementation vendor(s), program partner(s), and participants; and, in some cases, non-participants. A statistically representative sample of participants will be selected for the analysis.

The impact evaluation provides demand savings resulting from the program. Impact analysis for Power Manager involves a simulation model to calculate the duty cycle reduction, and then an overall load reduction. Impact analysis for PowerShare involves statistical modeling of an M&V baseline load shape for a customer, then modeling the event period baseline load shape and comparing to the actual load curve of the customer during the event period.

The field of evaluation is constantly learning from ongoing data collection and analysis, and best practices for evaluation, measurement and verification continually evolve. As updated best practices are identified in the industry, DEC will consider these and revise evaluation plans as appropriate to provide accurate and cost-effective evaluation.

EM&V EFFECTIVE DATE TIMELINE

This chart contains the expected timeline with end of customer data sample period for impact evaluation and when the impact evaluation report is expected to be completed.
Unless otherwise noted, original impact estimates are replaced with the first impact evaluation results, after which time subsequent impact evaluation results are applied prospectively.

Program	Program/Measure	2014				2015			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Appliance Recycling	Refrigerator, Freezer	1st EM&V	Report					2nd EM&V	Report
Energy Efficiency Education (K12 Curriculum)	Energy Efficiency Education (K12 Curriculum)							3rd EM&V	Report
Energy Efficient Appliance and Devices	Lighting - Smart Saver RCFL							3rd EM&V	Report
	Lighting - Specialty Bulbs			1st EM&V	Report				
	SF Water EE Products							1st EM&V	Report
	HP Water Heater & Pool Pumps								
HVAC Energy Efficiency	Residential Smart Saver AC and HP								
Income-Qualified Energy Efficiency	Tune & Seal Measures			1st EM&V	Report				
	Weatherization								
	Refrigerator Replacement								
Multi-Family Energy Efficiency	Low Income Neighborhood			1st EM&V	Report				
	MF Water EE Products							1st EM&V	Report
	Lighting (CFL Property Manager)								
My Home Energy Report	MyHER	Report							
Residential Energy Assessments	Home Energy House Call								
Non-Residential Smart Saver Energy Efficiency Custom	Non-Res SmartSaver Custom Rebate								
Non-Residential Smart Saver Energy Efficiency Food Service	Non-Res Smart Saver Energy Efficiency Food Service								2nd EM&V
Non-Residential Smart Saver Energy Efficiency HVAC Products	Non-Res Smart Saver Energy Efficiency HVAC Products								2nd EM&V
Non-Residential Smart Saver Energy Efficiency Lighting	Non Re Smart Saver Prescriptive Lighting								
	Non Res Smart Saver Prescriptive Other								
Non-Residential Smart Saver Energy Efficiency Motors Pumps Drives	Non-Res SmartSaver Prescriptive (VFDs or other)								2nd EM&V
Non-Residential Smart Saver Energy Efficiency Process Equipment	Non-Res Smart Saver Energy Efficiency Process Equip								2nd EM&V
Small Business Energy Saver	SBES								
Smart Energy in Offices	SEiO	Report							

Key

Original Estimate

1st EM&V

2nd EM&V

3rd EM&V

4th EM&V

Program	Program/Measure	2016				2017				2018				2019			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Appliance Recycling	Refrigerator, Freezer																
Energy Efficiency Education (K12 Curriculum)	Energy Efficiency Education (K12 Curriculum)											4th EM&V	Report				
Energy Efficient Appliance and Devices	Lighting - Smart Saver RLED (Free LED)							1st EM&V	Report								
	Lighting - Smart Saver Retail								1st EM&V	Report							
	Lighting - Specialty Bulbs										2nd EM&V	Report					
	SF Water EE Products							2nd EM&V	Report			Report		3rd E&MV	Report		
HVAC Energy Efficiency	HP Water Heater & Pool Pumps									Report							
	Referral and Non-Referral HVAC Measures								2nd EM&V	Report							
Income-Qualified Energy Efficiency	Weatherization								1st EM&V	Report							
	Refrigerator Replacement								1st EM&V	Report							
	Low Income Neighborhood			2nd EM&V	Report									3rd E&MV	Report		
Multi-Family Energy Efficiency	Lighting & Water EE Products			2nd EM&V	Report										3rd E&MV	Report	
My Home Energy Report	MyHER				3rd EM&V	Report						4th EM&V	Report				
Residential Energy Assessments	Home Energy House Call										3rd EM&V	Report					4th EM&V
Business Energy Reports	BER								1st EM&V	Report				Report			
EnergyWise Business	EnergyWise Business (EE measure)					1st EM&V	Report			2nd EM&V	Report						
Non-Residential Smart Saver Energy Efficiency Custom	Custom Rebate & Custom Assessment				2nd EM&V	Report					3rd EM&V	Report					
Non-Residential Smart Saver Prescriptive	All Prescriptive Technologies	Report							3rd EM&V	Report							
Non-Residential Energy Assessment							1st EM&V	Report									
Small Business Energy Saver	SBES			1st EM&V	Report				2nd EM&V	Report							
Smart Energy in Offices	SEiO							1st EM&V	Report								

Note: Residential Smart Saver AC and HP and Non-Residential Prescriptive lighting measures have completed a additional EM&V report in the past. Future reports combine measures for the respective programs.
Note: This exhibit starts with 2014 since that is the beginning of the current portfolio, however the EMV that occurred during the SAW pilot is counted in the 1st, 2nd, 3rd, etc. EMV